#### THE

# LITERARY AND BIOGRAPHICAL MAGAZIN

AND

# BRITISH REVIEW.

SEPTEMBER, 1793.

#### MEMOIRS OF M. D'ALEMBERT.

WITH AN ELEGANT PORTRAPT.

BERT was born at Paris the 16th of November, 1717. He was one of those early geniuses who shew what they will be hereafter, long before they attain to maturity of years. At the age of ten, his schoolmaster declared he had nothing further to teach him, and that he should be put to college. He was then placed at the Mazarine college, where he completed his studies with the greatest eclat. Here he shewed the strongest predilection for the fciences of philolophy and mathematics. To aid his fortune, his friends induced him to apply to the fludy of law or phyfic, but he foon returned to his favourite and predominant studies.

At an early age, he gained the Berlin for the best treatise on The consideration that a man of letters, general cause of winds. The academy, who is honoured in his own counfully fatisfied with the work, were try, feldom gains any thing by renot content with crowning the au- moving. D'Alembert was, in fact, thor; he was elected an academician looked upon in France as one of Vot. XI.

OHN LE REND D'ALEM- without scrutiny, by acclamation. At the same time, the king of Prussia, having gained three battles over the Austrians, and terminated his campaign by a glorious peace, our author took this opportunity to dedicate his work to that monarch, by the following verses:

Hæc ego de Ventis, dum ventorum ocyor alis

Palantes agit Austriacos Fredericus et orbi Infignis lauro, ramum prætendit olivà.

Flattered with this dedication, Frederic thanked him in an obliging letter, assigned him a pension of 1200 livres, and offered him the place of prefident of the academy of Berlin, formerly filled by Maupertius. But the French philosopher refused it, from an attachment to his prize proposed by the academy of friends and country, and from a

for this reputation to his Prelimi- had fixed the falary at one hundred nary Discourse to the Encyclopedia. thousand livres, and considerable This work, of which so much good, and so much ill, has been spoken, was undertaken in 1750, in con-junction with his friend Didero, and an employment. The empress ina number of learned men. He un-dertook the introduction of this great work, and instead of a collection of common-place remarks, with unfuccessful. which authors of an inferior rank ornament their prefaces, he prefented the world with an eloquent difcourse, in which were united strength and elegance, knowledge and entertainment, powerful reasoning, and a fine style. The genealogy he there introduces of human knowledge, is fuperior to any thing hitherto produced; and the equity which directs his opinions on those philosophers who have contributed to the perfection of science, is worthy of an impartial philosopher. The articles in mathematics with which he has peace in 1763, that prince tenderly Do mathematics furnish any method for calculating the probability of politics? D'Alembert's answer was a pleating compliment to the monarch. That he knew of no fuch method; but if he tributed, perhaps unintentionally, in did, it would be ufcless to his majefly.

The empress of Russia, equally corruption of manners. fensible to the merits of our philosopher, had about the end of the pre- and fometimes witty. Many bons ceding year, proposed to him to un- mots are attributed to him. But his

their first writers. He was indebted duke of Russia, her son, and she advantages. D'Alembert although pleased with the honour of the offer, fifted and preffed him again by a letletter written with her own hand, but her fecond attempt was equally.

These marks of consideration, a continued and regular correspondence with Voltaire, and the king of Prussia, his connections with many persons highly distinguished by their rank, and particularly those celebrated foreigners who vifited Paris, his influence in the academy of sciences, and in the French academy of which he was secretary, after the death of Duclos, all conspired to make D'Alembert perform a part truly important. His enemies called him the Magazine of Literature, but the love of truth, a zeal for the enriched the work, and some articles progress of the sciences, and for the in history and belles lettres, have defence of the rights of man, formed not been less applauded. If every the ground-work of his character. part had been executed in the same An exact probity, a noble disinterstyle, this dictionary would not have estedness, free from ostentation, and had to encounter to much criticism an enlightened benevolence, were his and perfecution. What has gained most conspicuous virtues. The pleahim in a more especial manner the sure of obliging he seemed carefully praife of Voltaire and other authors to feek after. If any young man of taste, is his style, which is always betrayed any talents for science and agreeable to the subject. D'Alem- literature, he found in him a supbert reaped the fruits of the esteem port and a guide, nor could this be he had inspired. In a journey he checked by the ingratitude of some made to Wesel, where he was in- individuals. A firm and couragevited by the king of Prusha after the ous friend, he knew how to defend those philosophers who were perfereceived and embraced him. The cuted, and that like a man who first question he put to him was—wished for no favour, and despised malignity. We may even reproach him with having too much favoured the attacks of Voltaire on religion and its defenders, and to have conshaking good principles, and in the

His conversation was instructive, dertake the education of the grand humour was never offensive. Aban-

doned.

woman who nurfed and took care of him until he was four years old, he ever after preserved towards her the fenfibility and gratitude of a fon. At his leaving college he took up his residence again with her, and remained there nearly thirty years; nor did he quit her till 1765, when after a long illness, his physician represented to him the necessity of feeking a more healthy fituation. The same principles of gratitude induced him to dedicate his works to cal and practical. two difgraced ministers, the Count D'Argenson, to whom he was indebted for the pension of 1200 livres, which the king granted him in 1756, and the Marquis D'Argenson his brother. This celebrated author was in the full strength of his genius when he died in 1783.

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In the first year of his studies, he composed a commentary on St. Paul's epiftle to the Romans. The Janse- sion of the Equinoxes. nists from this, hoped to find M. D'Alembert a second Pascal. But of the Resistance of Fluids. his attachment to the mathematics disappointed their hopes. His works

I. Literary, Historical, and Philosophical Miscellanies, 6 vol. 12mo. This work has been many times re-

doned, almost from his infancy, to a appear above the reach of the generality of readers, yet he has had the art to make it 'useful to all; it contains the preliminary discourse on the Encyclopedia. An effay on Men of Letters, five Eloges, of Bernoulli, Terasson, Montesquieu, Mallet, and Defmarfais. The Memoirs of Cristina, a translation of different parts of Tacitus, Elements of Philosophy, and differtations on various subjects.

II. Elements of Music, theoreti-

III. On the Destruction of the Jefuits in 1765.

IV. Eloges read at the fitting of the French academy 1779.

V. Treatife on Dynamics. VI. Treatife on the Equilibrium and Motion of Fluids.

VII. Reflections on the General Causes of Winds.

VIII. Reflections on the Procef-

IX. Essay on the New Theory

X. Enquiries into various important Points of the System of the World.

XI. Nova Tabula Lunarium Emendatio.

XII. Opuscules Mathematiques printed, and although its contents for 1761, and the following year.

# BIOGRAPHIANA;

OR, ANECDOTES OF ILLUSTRIOUS PERSONS.

NUMBER XVIII.

LULLY.

THIS celebrated mufician being at the point of death, was ordered by his confessor to deliver up to him to be burnt the last opera he composed. This he did with great reluctance; his fon, however, who was present when the priest was gone away, burst into loud lamentations at the fate of the piece. Lully, however, faid in a low voice to his fon, "Hold your tongue, you rogue, my copiest has another copy of it."

Sir ISAAC NEWTON.

This great philosopher lost thirty thousand pounds in the celebrated South Sea year of 1720. He did not, however, much like to hear of this, no more than of a loss of Bank notes, to the amount of two thouland pounds, which were taken out of his pocket by his valet de chambre. Sir Isaac was no less distinguished for his modelty than for his dili-All that he was able to tell gence. the world, he faid, was owing not X 2

to any superior talents, but to his patient thinking. His chronology of ancient kingdoms, his laft, and most certainly not his best work, at a very advanced period of life, had been written over by him in his own hand-writing feven or eight times. Fontenelle concludes his celebrated eulogium upon Sir Isaac by afferting, that he was not distinguished from other men by any fingularity whatfoever. Dr. Johnfon uled to fay that some baronet told him, that Sir Ifaac was in early life a most clamorous infidel; but that on examining the evidences of Christianity with attention, he became a very firm believer. Sir Ifaac, when in London, lived in the house in St. Martin's-street, Leicesterfields, which was lately occupied by the ingenious author of the Hiftory of Music, Dr. Burney. It is now occupied for that elegant and useful institution, the Westminster Library.

#### St. VINCENT de PAUL.

In our admiration of the exertions of the men of humanity of our time, we appear to have forgotten what this excellent priest did in the last century in France. Having once feen a young man in the galleys of Marfeilles, who appeared inconfolable at being separated from his wife and children, he offered himfelf to become a prisoner in his stead, and his offer was accepted. 'He inflituted a foundling hospital for Paris. Many of the principal hospitals of Paris owe their establishments to him. He instituted several seminaries for the education of clergymen, and feveral missions for the conversion of the insidels. Early in life he was taken prisoner by an Algerine corfair; he, however, converted his captain. Exhaufted with fatigues, both of body and mind, he died in 1668, at the age of 85. He was canonized by Benedict XIII. in 1737; and, had every faint at prefent in the Roman Calendar an equal claim to that diffinction, who ference of Gertruydenburgh, in 1709,

could wish to take away from the popes their power of canonization. The life of this excellent and extraordinary man is written in two volumes, quarto, by M. Collet, one of his pupils, and is a very curious piece of biography, but rather prolix.

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#### Cardinai de Polignac.

Of our celebrated Mr. Burke, Goldsmith said,

Who, born for the univerfe, narrowed his

And to party gave up what was meant for mankind.

In the history of the minority of Louis XV. of France, by that eloquent prelate M. Massellon, lately published, having praised the many and the great talents of M. de Polignac, he adds, "Il n'y a a la cour; de gens vraiement forts, que ceux qui ne se partialisent point. Tous les partis les craignent, & les rechercent. Si le Cardinal de Polignac avoit su tenir ce juste milieu, il eut joué le plus grand personage, au lieu qu'il n'a fait que le chemin que d'autres avant lui avoient fait avec moins de talens."-" There are no people at court, who have any ftrong interest, but those who do not attach themselves to party. These, all parties fear and court. If Cardinal de Polignac had known how to steer this just medium, he would have been a man of the first confequence; instead of which, he has only followed the path pointed out to him by others of less talents."

The Cardinal was a man of fuch infinite address in conversation, that Louis XIV, who did not much like contradiction, faid of him when he was very young, " Je viens d'entretenir un homme & un jeune homme, qui m'a toujours contredit & qui m'a toujours plu." According to the Dictionaire Historique, Caen, nine volumes, 8vo. (a book which cannot be too much recommended to perfons of any curiofity respecting literature and biography) when the deputies from Holland, at the con-

monarch, Louis XIV. terms too degrading for him to accept of, he replied, "Gentlemen, I find that you talk like persons not accustomed to be conquerors." The Cardinal's Latin poem of Anti-Lucretius has had the fate of most didactic poems. is now nearly forgotten, and what may have accelerated its oblivion, perhaps in spite of the many fine tirades with which it abounds, is, that the philosophy of it, is that of Des Cartes. Newton's philosophy was put into Latin verse not many years ago, by Benedict Stey, a German monk. It is, however, very little known.

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## Marshal CATINAT,

Was called by his foldiers, Père la Penfée, from his extreme care of them in every fituation, and his extreme solicitude for their welfare. He died at a very advanced age, at his chateau near Paris, after having received the facrament according to the rites of the catholic church; and the last words he was heard to articulate were, " Mon Dieu, j'ai constance en vous." He was extremely fimple in his drefs and in his behaviour. Simplicity, indeed, united with the greatest virtues and the greatest talents, formed the basis of his character. Madame de Coulanges fays of him, in one of her letters, "Nous ne passons pas un jour fans le voir, Je l'ai trouvé seul toujours au bout d'une de nos allées. Il y est, fans epée. Il semble qu'il ne croit pas en avoir jamais porté." In the life of this great general, and of his countryman Marshal Turenne, the imagination appears transported into other countries, and into other times; and even supposes itself occupied about a Greck or a Roman hero.

# Marshal HUXELLES,

One of the few French ministers letters to Sir George Littleton, When one of the court ladies one I hope.'

offered this dejected and humiliated day asked him why he had never been married, he replied, "Madam, because I have never yet seen the woman that I could wish to have for my wife, nor the man I could wish to have for my fon,"

# St. FRANCOIS de SALES,

One of the latest of the modern faints; but, as a lady well observed of him, a most gentlemanlike saint. He preferred his own milerable bishopric of Geneva to that of Paris, which Henry the Fourth offered him. This excellent prelate was a model of humility, charity, and piety. The Abbe Marfolier has written a very entertaining life of him, in two volumes, 12mo.; and the Esprit de St. François de Sales, 8vo. contains the fummary of his maxims and doctrine, very well compiled. To some ecclesiastic of his diocefe, who was brought before him as a person of vicious and irregular life, and who had fallen on his knees before him to beg pardon for the fcandal he had given; the prelate replied, falling also on his knees before him, " Je vous demande que vous avez pitié de moi & de tous tant que nous fommes ecclefiastiques en ce diocese, de l'Eglise & de toute la religion que vous ruinez d'honneur par votre vie scandaleuse, qui donne lieu a nos adverfaires de blafphemer notre fainte foi." This speech (adds the author of this anecdote) made fuch an impression upon the culprit, that he took up a new way of life, and became a model of piety and virtue.

#### LEIBNITZ.

This celebrated philosopher used to fay, " On ne doit point trop lire, ni trop voyager, fi l'on ne veut pas faire de son esprit une piece de Marqueterie." When a pedant one day asked a celebrated Irish bishop of whom Lord Bolingbrooke, in his if he had kept up his Greek, he replied, "Sir, I have done with Greek fpeaks well, was an old bachelor. and gingerbread a great while ago,

#### VOLTAIRE.

A principal actor in the scenes mentioned in Voltaire's history of Charles the Twelfth, saw the author soon after the publication of his history, and asked him why he did not apply to him for some information, which he would very willingly have given him, Voltaire replied, "Monfeigneur s'il y a des erreurs dans mon livre, vous conviendrez au moins qu'il est bien ecrit, & qu'il n'y a point d'histoire qu'on ne puisse accuser d'inexactitude." The late Dr. Johnson used to fay, that the history of Charles the Twelsth by Voltaire, was one of the first pieces of historical writing in any language.

# GODEAU,

Bishop of Gap, in one of his poems, speaking of the art of medicine, says,

Cet art qui fait le meutre avec impurité Et d'ont notre foiblesse accroit l'authorité. The art of physic with a licence kills, And keeps its empire by our fancied ills."

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#### FONTENELLE

Was a man much liked in fociety. He was a man of pleafantry, and at the same time a man of great indifference. A lady one day asked Mon. tesquieu, how Fontenelle came to be fo well received in company, C'est parce qu'il n'aime personne, was his answer; because he had no strong attachments. Some one asked Fontenelle one day, if he had ever written any epigrams; "Yes, faid he, I have had the folly to write many, but I never had the malignity to publish one." The regent asked Fontenelle one day, what he was in general to think of the different verses that were addressed to him: " Sir, replied he, that they are good for nothing, and ninety-nine times in a hundred you will think rightly.'.

# SCRAPIANA

#### NUMBER IV.

WHAT would the admirers of Lavater fay to this passage in the Macbeth of that master of human nature, Shakespeare?

Can find the mind's conftruction in the

Hooker fays prettily of that excellent young prince, our Edward the Sixth, the humani generis deliciæ, "He died foon, but lived long, for life confifts in action." And his life confifted of the purest and the most benevolent series of actions, that ever adorned the life of any man. The celebrated Cardan (who had held several conversations with him) wrote these lines for his epitaph—

Flate nefas magnum fed toto flebitis orbe Mortales. Vefter corruit omnis honos. Nam Regum decus, Juvenum flos, ípeíque Bonorum

Delicia fiecli, & gloria gentis erat.

THAT would the admirers of Dignus Apolloniis lachrymis doctaque

Flosculus (heu misero!) concedet ante diem.

Te tumulo dabimus Musæ, fupremaque Flentes Numera Melpomenes tristia sata canent.

Lord Bacon, in speaking of the composition of sermons, says very beautifully, "Wines, which at the first treading run gently, are pleasanter than those which are forced by the wine-press, for these taste no less of the husk and stone, than of the grape; so those doctrines are exceedingly wholesome and pleasant, which slow from the scriptures, gently pressed, and are not wrested into controverses and common places,"

Who would expect to find in the fermons of one of our divines the following passage, on the danger of early quarrels between man and wife? "Man and wife, says Jeremy Taylor,

can shake the little rings of the vine, when first they begin to curl like the locks of a new-weaned boy; but when by age and consolidation stem, and have, by the warm embraces of the fun, and the kiffes of heaven, brought forth their clusters, they can endure the storms of the north, and the loud noises of the tempest, and yet never be broken. So is the early union of an unforced marriage, watchful and obfervant, jealous and busy, inquisitive and careful, and apt to take alarm at every unkind word."-Jeremy Taylor has been called the Shakespear of our English divines. The fucceeding passage may well entitle him to the appellation of the Fletcher, likewise of that distinguished fraternity. Can any thing be more elegant, or more tender, and more abundant in imagery, than it is? His comparison between a married and a fingle life, in the fame fermon, that on the bleffedness of the marriage-ring, is equally beauti-"Marriage, fays the bishop, was ordained by God himself, instituted in Paradife, was the relief of natural necessity, and the first blessing from the Lord; he gave to man, not a friend, but a wife (that is, a friend and a wife too). It is the feminary of the church, and daily brings forth fons and daughters unto God; it was ministered to by angels, and Raphael waited upon a young man, that he might have a bleffed marriage, and that that marriage might repair two fad families, and blefs all their relations. Marriage is the mother of the world, and preferves kingdoms and fills cities, churches, and even heaven itself. Celibacy, like the fly in the heart of an apple, dwells in a perpetual sweetness; but fits alone, and is confined and dies in fingu-

Taylor, are equally concerned to larity: but marriage, like the useful avoid all offences to each other, at bee, builds a house, and gathers the beginning of their conversation. sweetness from every flower; and Every thing can blaft an infant labours and unites into focieties bloffom, and the breath of the fouth and republics, and fends out colonies, and feeds the world with delicacies; and keeps order and exercifes many virtues, and promotes the interest of mankind; and is they stiffen into the hardnesses of a that state of good things, to which God hath defigned the present constitution of the world. Marriage hath in it the labour of love, and the delicacies of friendship; the bleffings of fociety, and the union of hands and hearts. It hath in it less of beauty, but more of safety than a fingle life; it is more merry and more fad, is fuller of joys, and fuller of forrow; it lies under more burthens, but is supported by all the strength of love and charity, and these burthens are delightful."

> Pomponacius was supposed to be a speculative atheist. The epitaph that he composed for himself is a singularly impudent one.

> > Hic fepultus jaceo.
> > Quaré ? Nescio
> > Si vales. Bené est.
> > Vivens valui.
> > Fortasse inunc valeo.
> > Si, aut non, dicere nequeo.

The following motto was given by a learned physician for the achievement of the late Dr. James, author of the fever powder:

Pulvis & umbra fumus. Great James himself by death is made, Chiefly a powder and a shade.

The following epigram upon a beautiful coquette is very pretty:

Te Rex aftrorum, quoque te, Regina gubernat,

In vultæ Sol, in pectore Luna valet.

No less than Sol, the Moon my fair one guides,
One o'er her face, one o'er her breaft pre-

Dr. Johnson had very masterly ideas of education, and said to some mother, who was carping about the different professions, "My good la-

dy, never think it clever to call phy- fome business, where money is to be fic a mean study, or law a dry one; got, and little virtue to be required; nor aik a baby of feven years old what let him follow that bufiness speedily, way his genius leads him; when we and not let him live as Roger Afcham all know that a boy of that age has fays the wits do, men know not how, no genius for any thing except a peg and at last die obscurely, men know top and an apple pye; but fix on not where."

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# OBSERVATIONS CONCERNING THE VELOCITY OF LIGHT. BY JOSEPH PRIESTLEY, LL. D. F.R.S.

more foutherly than it had done at equinoctial points. and the month preceding. it would have been, had it prochange in the materials, &c. of the into the laws of this new motion. instrument itself might have oc-

R. BRADLEY, aftronomer meaning probably the variations of royal, and his friend Mr. the state of the atmosphere; and Molyneux, thinking to verify some comparing their observations upon observations of Dr. Hooke, con- two stars together, it appeared that cerning the parallax of the fixed the apparent differences of declinaftars, observed the star y. Draconis, tion from the maxima were always at Kew, on the 20th of December nearly proportional to the verfed 1725, and found that it appeared fine of the fun's distance from the This was an the beginning of the same month inducement to think that the cause, This whatever it was, had fome relation furprised them, and the more so, as to the situation of the sun with it was the contrary way from what respect to those points. But not being able to frame any hypothesis, ceeded from an annual parallax. at that time, sufficient to solve all But being pretty well fatisfied that the phænomena, and being very it could not be entirely owing to desirous to search a little farther the want of exactness in the obser-vations, and having no notion of any thing else that could cause such for himself at Wansted; that, having an apparent motion as this in the it always at hand, he might, with ftar, they began to think that some the more ease and certainty, enquire

He had not been long in observcafioned it. In this perfuafion they ing, before he perceived that the remained fome time; but being at notion he had before entertained, length fully convinced, by feveral of the stars being farthest north and trials, of the great exactness of the fourh, when the sun was about the instrument; and finding, by the equinoxes, was only true of those gradual increase of the distance of that were near the folfitial colure; the star from the pole, that there and after he had continued his must be some regular cause that observations a few months, he difproduced it, they took care to exa- covered what he then apprehended mine nicely, at the time of each ob- to be a general law, observed by all fervation, how much it was; and, the stars, viz. that each of them after several observations for that became stationary, or was farthest purpose, the first hypothesis that oc- north or south when they passed curred to them was, that it was oc- over his zenith, at fix of the clock, casioned by the nutation of the either in the morning or the evenearth's axis; but this was foon found ing. He perceived, likewife, that to be infafficient. They also found whatever situation the stars were in, that it did not depend upon any with respect to the cardinal points variety of the seasons of the year, of the ecliptic, the apparent motion

of every one tended the same way, in the direction of the plumb line northward in the night; fo that each was farthest north, when it came about fix of the clock in the evening, and farthest fouth when it came about fix in the morning.

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Examining the matter more particularly, he found that the greatest alteration of declination in these stars was as the fine of the latitude like proportion between the maxima of other stars; but finding that the observations of some of them would not perfectly correspond with such an hypothelis, and not knowing whether the small difference he met with might not be owing to the uncertainty and error of the observations, he deferred the farther examination into the truth of this hypothefis, till he should be furnished with a feries of observations, made in all parts of the year; which might enable him not only to determine what errors the observations were liable to, or how far they might be fafely depended upon, but also to

instrument itself. Upon these considerations he laid aside all thoughts at that time about the cause of the fore-mentioned phænomena; hoping that he should the more easily discover it, when he was better provided with proper means to determine more precifely

judge whether there had been any

fentible change in the parts of the

what they were. When the year was completed, his observations; and having pretty well fatisfied himfelf as to the genethat the apparent motion of the that offered itself was an alteration he observes, to find what would be

Vol. XI.

when they passed his instrument with which the instrument was conabout the same hour of the day or stantly rectified, but this, upon trial. night; for they all moved fouthward proved infufficient. Then he conwhile they passed in the day, and sidered what refraction might do, but here also nothing satisfactory occurred. At last he conjectured that all the phænomena hitherto mentioned proceeded from the progressive motion of light, and the earth's annual motion in its orbit. For he perceived that if light was propagated in time, the apparent place of a fixed object would not be of each respectively. This made the same when the eye is at rest, as him suspect that there might be the when it is moving in any other direction than that of the line passing through the eye and the object, and that when the eye is moving in different directions, the apparent place of the object would be different.

He then shews, that if the earth revolve round the fun annually. and the velocity of light be to the velocity of the earth's motion in its orbit, as one thousand to one, that a flar really placed in the very pole of the ecliptic would, to an eye carried along with the earth, feem to change its place continually; and neglecting the fmall difference on the account of the carth's diurnal revolution on its axis, would feem to describe a circle round that pole every way distant from it 3'1; so that its longitude would be varied through all the points of the ecliptic every year, but its latitude would always remain the fame. Its right afcenfion would also change, and its declination, according to the different fituation of the fun with respect to the equinoctial points, and its apparent distance from the north pole of the equator, would be 7' less at he began to examine and compare the autumnal than at the vernal equinox.

The greatest alteration of the ral laws of the phænomena, he place of a star in the pole of the endeavoured to find out the cause ecliptic, or which in esset, amounts of them. He was already convinced to the fame thing, the proportion between the velocity of light and stars was not owing to a nutation of the earth's motion in its orbit the earth's axis. The next thing being known, it will not be difficult, the difference, upon this account, treme red and ending with the exbetween the true and apparent place treme violet, viz. as 78000, 77873, of any other star at any time; and 77797, 77663, 77496, 77330, 77226, on the contrary, the difference between the true and apparent place 120120. being given, the proportion between the velocity of light and the earth's motion in its orbit may be found.

These different methods thus agreeing in the refult, he thought he might reasonably conclude, not only that thefe phænomena are owing to the causes to which he had ascribed them, but also that, in the same medium, light is propagated with the fame velocity after it has been reflected as before. For this will be the confequence, if it be allowed that the light of the fun is propagated with the fame velocity before it is reflected as the light of the fixed stars; which will hardly be questioned, if it can be made to appear that the velocity of the light of all the fixed stars is equal, and that their light moves through equal spaces in equal times, at all distances from them; and both thefe he thought were fufficiently proved from the apparent alteration of the declination of flars of different luftre; for that is not fensibly different in fuch flars as teem near together, though they appear of very different magnitudes. Whatever their fituations were, he found that, according to the foregoing hypothesis, the velocity of light from stars of the fifth or fixth magnitude, was the fame as from those of the second or third, which in all probability, are placed at very different distances from us.

Mr. Melville thought it probable, that differently coloured rays might be affected with different velocities at their emission from the luminous body, and that this hypothesis was on feveral accounts, preferable to Newton's supposition, that they are particles of different fizes or denfities. Their different refrangibility, he observes, will be the very same upon this hypothesis, and their different velocities will be nearly as a treatife published in 1752, adthe fines of refraction out of air into glass, beginning from the ex-

77000, the fine of incidence being

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This hypothesis he thought most agreeable to Newton's supposition of the fits of easy reflection and transmission being occasioned by the pulles of the medium through which they pass, as these pulses would overtake rays, moving with different velocities, at different times.

To the objection that the different fensations excited in the mind cannot arise from the different force of the particles of light, fince the colour of homogeneous rays is not altered by passing through different mediums, though their velocity be thereby always increased or diminished, he replies that every ray, as it must at last pass through the humours of the eye, in order to vision, falls upon the retina with one given velocity, whatever number of refractions it has previously undergone; fince the velocity of any ray in any one medium is to its velocity in any other medium, in a constant and invariable proportion.

Lastly, this gentleman proposes a trial of his hypothesis by an experiment; for fince, according to this supposition, the time which the extreme violet rays take to move through any space are to that which the red takes as 78 to 77; the last violet light which a fatellite reflects before its total immersion into the fhadow of Jupiter ought to affect the eye 32 feconds after the red light, reflected at the same time, is gone; and at the emersion, there would be a contrary succession of colours, beginning with red, and ending with white; and the difference of time between the arrival of the different coloured rays being more than half a minute, there might be sufficient time to make the observation.

The Marquis De Courtivron, in vanced the same opinion with Mr. Melville concerning the cause of

the different refrangibility of the and a candle, for inflance, are equalof a theorem of M. Clairaut (in his investigation of the curve described by a ray of light on any hypothesis of the attractive power) found that the difference ought to be as 44 to But fince, as M. Clairaut 45. informs us, Mr. Short's observations led him to conclude the phænomena by no means agreed even with Mr. Melville's hypothesis, they were still more conclusive against that of the Marquis, which supposes the difference of velocity to be greater.

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In the course of M. Clairaut's enquiry, concerning Mr. Dolland's improvements in telescopes, he examines an hypothesis which makes the different refrangibility of the rays of light to depend upon their different velocities, but he found that the refractions which would refult from this principle were very different from those which actually

take place in nature.

Mr. Melville also questions whether light be emitted with the fame velocity in whatever medium the luminious body be placed, and suppoles that the velocity may be greater in denser mediums, and that in proportion to their refractive powers. The same argument, he fays, from whence we gather in rays of any one colour, from the fun tain the truth of this hypothesis.

rays of light, and even proposed the ly refracted by a surface of glais or fame trial of his hypothesis, viz. water, we may conclude that their by observing the eclipses of Jupiter's velocities in air are equal. Wherefatellites; but whereas Mr. Melville fore if the denfity of the fun's atsupposed that the velocity of the mosphere contiguous to his surface red light exceeds that of the violet be different from the density of our only 1/2 of the whole time of their lower air, as may be fafely prepallage, the Marquis, making use sumed, his rays must have been emitted with more or less velocity than that of the candle; otherwise they could not have the fame velocity afterwards in any common medium, for the velocity with which any ray is emitted is, by the laws of refraction, to its velocity in any given medium, as the fine of refraction to the fine of incidence, when a ray passes from the medium of emission into the given medium.

M. Muschenbroeck argues that, fince the red rays have a lefs degree of refrangibility they move more flowly than the rest, after their feparation from the other colours, though he is compelled, by aftronomical observations, to acknowledge, that when they are mixed with the other rays, in one beam, they move with equal velocity. does not, however, think that the colour depends upon the velocity. because, fince this changes with the medium through which the rays are transmitted, the colour of the same rays would change in those circumstances. But he did not consider, viz. the observation above mentioned of Mr. Melville, that whatever mediums any ray may pass through, fince it must, after all, be transmitted through the fame humours of the general the equal velocity of light eye, it will arrive at the retina with emitted by all forts of luminous the same velocity; and that nothing bodies feems to prove the truth of but a change in the refractive power the latter supposition. For since of the humours of the eye can alcer-

# NEW METPIOD OF PLACING A MERIDIAN MARK.

BY D. RITTENHOUSE, ESQ.

From the Transactions of the American Philosophical Society.

a meridian mark for my observatory. you a particular description of it.

COME time ago I mentioned to you This I have fince executed, and as it a new invention I had for fixing answers perfectly well. I shall give erected, I placed a meridian mark to the northward at the distance of about 1900 feet, my view to the fouth being too much confined by adjacent buildings, and that to the north was not diffant enough to have the mark free from a fentible paral-lax. But last summer a new brick house was built directly north of the observatory, and much too nigh for diffant vision with the transit instrument. Now though a fixed mark is not absolutely necessary where you have a good transit instrument, the polition of which may be examined and accurately corrected, if necesfary, every fair day, by the passage of the pole star above and below the pole, it is nevertheless very convenient, faves much trouble, and may fometimes prevent millakes. have an instance in the observations of the Aftronomer Royal at Greenwich. His mark being taken down at repairing the building to which it was fecured, the transit instrument was accidentally thrown out of its true polition, and the observations with it were continued for a confiderable time before the error was detected. My meridian mark being thus rendered useless, I contrived leveral other methods of supplying its place, all of which were, on fufficient deliberation, rejected for the following.

I fallened the object glass of a thirty fix feet telescope, firmly, to the wall which supports the transit inftrument, opposite to and as near as convenient to the object glass of the transit, when brought to a horizontal fituation. In the focus of the thirty fix feet object glass I screwed fast a piece of brass to a block of marble, supported by a brick pillar built on a good foundation for this purpole in my garden. On this piece of brass are leveral black concentric circles; the reft of the place is filvered. The diverging rays of with no small difficulty placed the light which proceed from every thread of a spider in some of my inpoint in these circles, after passing struments, it has a beautiful effect, it

When my observatory was first come parallel, and entering the transit instrument, an image of the plate and its circles is formed in the fame place where the images of stars or the most distant objects are formed. The circles are therefore diftinealy feen through the transit. and being placed in the fame meridian with the center of the thirty-fix feet glass, the innermost circle, about the fize of a brevier o, ferves for a meridian mark, to the center whereof the cross hair of the transit may be nicely adjusted.

This mark is in feveral respects preferable to one placed in the common way. It is entirely free from parallax, which the other cannot be, unless placed at a very great distance, when glasses of great magnifying powers are used. It is not fenfibly affected by the undulation of the air, which very often renders it impossible to fet the transit accurately to a distant mark. And it can be illuminated at night without difficulty, should the suspicion of any accident to the transit make it necessary. But it has likewife one difadvantage. Should the pillar in fettling, carry the mark a little to the east or west, the error will be greater in propor-

tion to its nearnels.

P. S. The great improvement of object glaffes by Dolland has enabled us to apply eye glaffes of fo fhort a focus, that it is difficult to find any substance proper for the cross hairs of fixed inftruments. For some years past I have used a fingle filament of filk, without knowing that the fame was made use of by the European astronomers, as I have lately found it is by Mr. Herschell. But this fubstance, though far better than wires or hairs of any kind, is ftill much too coarle for some observations. A fingle filament of filk will totally obscure a small star, and that for feveral feconds of time, if the flar be near the pole. I have lately thro igh the thirty-fix feet glass be- is not one tenth of the fize of the

thread

I have hitherto found no inconvenience from the use of it, and from knots or particles of dust. believe it will be lasting, it being

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thread of the filkworm, and is more than four months fince I first rounder and more evenly of a thick- put it in my transit telescope, and it continues fully extended, and free

## ACCOUNT OF A WORM IN A HORSE'S EYE.

BY F. HOPKINSON, ESQ.

From the Same.

to the following curious fact, I thought it should not pass unrenotice of the Philosophical Society.

firming the account, I had the curiofity to go myself, taking a friend his tormentor. along with me. The horse was kept in Arch-street and belonged to a free negroe. I examined the eye with all the attention in my power, being no ways disposed to credit the common report, but rather expecting to detect a fraud or vulgar prejudice; I was much furprised, however, to see a real living worm within the ball of This worm was of the horse's eye. a clear white colour, in fize and appearance much like a piece of fine bobbin; it feemed to be from 21 to 3 inches in length, which however, could not be duly afcertained, its whole length never appearing at one time, but only fuch a portion as could be feen through the iris, which was greatly dilated. The creature was in a constant lively vermicular motion: fometimes retiring fo deep into the eye as to become totally inplainly and distinctly seen; at least its head, neither end being perfectly to determine.

TAVING been myself a witness exhibited whilst I viewed it, and indeed its motion was fo brifk and constant, that so nice a scrutiny was corded, especially as it occurred in not to be expected. The horse's eye Philadelphia, under the immediate was exceedingly enflamed, fwoln and running; I mean the muscles A report prevailed last fummer contiguous to the eye ball, and that a horse was to be seen which had seemed to give him great pain; fo a living ferpent in one of his eyes, that it was with much difficulty At first I difregarded this report, the eye could be kept open for but numbers of my acquaintance, more than a few feconds at a time; who had been to fee the horfe, con- and I was obliged to watch favourable moments for a distinct view of I believe the horfe was quite blind in that eye, for it appeared as if all the humours were confounded together, and that the worm had the whole orb to range in, which, however, was not of a diameter fufficient for the worm to extend its full length, as far as I could discover. The humours of the eye were beginning to grow opake like a chilled jelly, and became altogether fo afterwards, as I was informed.

As this is a very uncommon circumitance, and may affect fome philosophical doctrines, it is much to be lamented that the horse had not been purchased, and the eye diffected for better examination. That there was a living, felf-moving worm within the ball of the horse's eye, free from all deception or mistake, I am most How this worm got confident. visible, and at other times approach- there, or if bred in so remarkable a ing to near to the iris as to become place, where its parents came from, or how they contrived to deposite fo much of it as was within the field their femen or convey their egg into of the iris. I could not diftinguish the eye of an horse, I leave for others

ACCOUNT

## ACCOUNT OF THE CUPRESSUS DISTICHA.

BY WILLIAM BARTRAM.

shade upon the ground, as a dark intervening cloud, which, for a time, excludes the rays of the fun. The its leaves, exceed every thing in vewith two or three feet depth of wa- rivers. ter; and that part of the trunk for bee-hives; a small space of the shaft. tree itself is hollow, nearly as high

HE cupressus distichastands in as the buttresses already mentioned. the first order of North Ame- From this place, the tree, as it were, rican trees. Its majestic stature is takes another beginning, forming a furpriling; and on approaching it, grand straight column eighty or we are flruck with a kind of awe, ninety feet high, when it divides at beholding the stateliness of the every way around into an extensive trunk, lifting its cumbrous top to- flat horizontal top, like an umbrella, wards the skies, and casting a wide where eagles have their secure nests, and cranes and florks their temporary resting places; and what adds to the magnificence of their appeardelicacy of its colour and texture of ance, is the streame s of long moss. that hang from the lofty limbs and getation. It generally grows in the float in the winds. This is their water, or in low flat lands, near the majestic appearance when standing banks of great rivers and lakes, that alone, in large rice plantations, or are covered, great part of the year, thinly planted on the banks of great

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Parroquets are commonly feen which is subject to be under water, hovering and sluttering on their and four or five feet higher up, is tops: they delight to shell the balls, greatly enlarged by prodigious but- its feed being their favourite food. treffes, or pilasters, which, in full The trunks of these trees, when holgrown trees, project out on every lowed out, make large and durable fide, to fuch a distance, that several pettiaugers and canoes, and afford men might easily hide themselves in excellent shingles, boards, and other the hollows between. Each pilaster terminates under ground, in a very large, strong, serpentine root, which ftrikes off, and branches every way, ftage round them, as high as to reach just under the surface of the earth: above the buttresses; on this stage, and from these roots grow woody eight or ten negroes ascend with cones, called cypress knees, four, their axes, and fall to work round five, and fix feet high, and from fix its trunk. I have feen trunks of to eighteen inches and two feet in these trees that would measure diameter at their bases. The large eight, ten, and twelve feet in diaones are hollow, and serve very well meter, for forty and sifty feet straight

# ACCOUNT OF THE ALIIGATORS OF FLORIDA.

By the Same.

cocks, ranged like an encampment of them before. along the banks. They stood fifteen

N turning a point or projection water, on a high marsh, about four of the river bank, at once I feet perpendicular above the water. beheld a great number of hillocks I knew them to be the nefts of the or finall pyramids, refembling hay- crocodile, having had a description

The nefts or hillocks are of the or twenty yards diffant from the form of an obtuse cone, four feet

meter at their bases; they are con- a very large and terrible creature, tum of mortar, feven or eight inches in thickness, and then another layer of eggs, and in this manner one stratum upon another, nearly to the top. I believe they commonly lay from one to two hundred eggs in a nest: these are hatched, I suppose, the vegetable substances mixed with impenetrable when on the body of the earth, being acted upon by the the live animal, even to a rifle ball, thick as it could grow together. watches her own nest of eggs until while she is attending her own one time, either from her own particular nest or others: but certain it is, that the young are not left to shift for themselves; for I have had frequent opportunities of feeing the female alligator leading about the shores her train of young ones, just as a hen does her brood of chickens; and the is equally affiduous and courageous in defending the young, which are under her care, and providing for their fublishence; and when the is balking upon the warm banks, with her brood around her, you may hear the young ones continually whining and barking, like be heard at a great distance. young puppies. I believe but few of a brood live to the years of full to a stranger, is the incredible loud growth and magnitude, as the old and terrifying roar, which they are feed on the young as long as they capable of making, especially in the can make prey of them.

high, and four or five feet in dia. The alligator when full grown is fructed with mud, grafs, and her- and of prodigious strength, activity, bage. At first they lay a floor of and swiftness in the water. I have this kind of tempered mortar on the feen them twenty feet in length, and ground, upon which they deposit a some are supposed to be twenty-two layer of eggs, and upon this a stra- or twenty-three feet. Their body is as large as that of a horse; their shape exactly resembles that of a lizard, except their tail, which is flat or cuneiform, being compressed on each fide, and gradually diminishing from the abdomen to the extremity, which, with the whole body is coby the heat of the fun; and perhaps vered with horny plates or fquamma; fun, may cause a small degree of except about their head and just befermentation, and so increase the hind their fore-legs or arms, where heat in those hillocks. The ground it is said they are only vulnerable. for feveral acres about these nests. The head of a full grown one is shewed evident marks of a continual about three feet, and the mouth refort of alligators; the grafs was opens nearly the fame length; their every where beaten down, hardly a eyes are fmall in proportion and blade or straw was left standing; seem sunk deep in the head, by whereas, all about, at a distance, it means of the prominency of the was five or fix feet high, and as brows; the nostrils are large, inflated and prominent on the top, fo that The female, as I imagine, carefully the head in the water refembles, at a distance, a great chunk of wood they are all hatched; or perhaps floating about. Only the upper jaw moves, which they raise almost perbrood, The takes under her care and pendicular, fo as to form a right anprotection as many as the can get at gle with the lower one. In the fore part of the upper jaw, on each fide, just under the nostrils, are two very large, thick, strong teeth or tusks, not very fharp, but rather the fhape of a cone: these are as white as the finest polished ivory, and are not covered by any skin or lips, and always in fight, which gives the creature a frightful appearance: in the lower jaw are holes opposite to these teeth, to receive them: when they clap their jaws together it causes a furprifing noise, like that which is made by forcing a heavy plank with violence upon the ground, and may

But what is yet more furprising fpring feafon, their breeding time.

It most resembles very heavy distant thunder, not only shaking the air and waters, but causing the earth to tremble; and when hundreds and thousands are roaring at the same time, you can scarcely be persuaded but that the whole globe is violently

and dangeroully agitated.

An old champion, who is perhaps absolute sovereign of a little lake or lagoon (when fifty less than himself are obliged to content themselves with swelling and roaring in little coves round about) darts forth from the reedy coverts all at once, on the furface of the waters, in a right line; at first feeming as rapid as lightning, but gradually more flowly, until he arrives at the center of the leke, when he flops. He now swells

himself, by drawing in wind and water through his mouth, which causes a loud sonorous rattling in the throat for near a minute, but it is immediately forced out again through his mouth and nostrils, with a loud noise, brandishing his tail in the air, and the vapour afcending from his nostrils like smoke. At other times, when fwollen to an extent ready to burft, his head and tail lifted up, he spins or twirls round on the surface of the water. He acts his part like an Indian chief when rehearing his feats of war; and then retiring, the exhibition is continued by others who dare to step forth, and strive to excel each other, to gain the attention of the favourite

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## OR THE NATURE OF BIRDS.

BY THE LATE COUNT BUFFON.

( Concluded from Page 97. )

crow, which only prowl among carrion and garbage, to the hyænas, the wolves, and jackals. The fal-cons, the sparrow-hawks, and the other birds trained for sport, are analogous to the dogs, the foxes, the ounces, and the lynxes; the owls, which prey in the night, represent the cats; the herons, and the cormorants, which live upon fish, correspond to the beavers and otters; and in their mode of fubfistence, the woodpeckers refemble the ant eaters. The common cock, the peacock, the turkey, and all the birds furnished with a craw, bear a relation to the ox, the sheep, the goat, and other ruminating animals. With regard to the article

THE dispositions and habit of of food, birds have a more ample animals depend greatly on latitude than quadrupeds; flesh, fish, their original appetites. We may the amphibious tribes, reptiles, intherefore compare the eagle, noble fects, fruits, grain, feeds, roots, herbs; and generous, to the lion; the vul- in a word, whatever lives or vegeture, cruel and infatiable, to the tates. Nor are they very nice in their tiger; the kite, the buzzard, the choice, but often catch indifferently at what they can most easily obtain. The sense of taste is much less acute in birds than in quadrupeds; for, if we except fuch as are carnivorous, their tongue and palate are in general hard, and almost cartilaginous. Smell can alone direct them, and this they possess in an inferior degree. The greater number swallow without tasting, and mastication, which constitutes the chief pleasure in eating, is entirely wanting to them. Hence, on all these accounts, they are so little attentive to the selection of their food, that they often poison themselves.

The attempt is impossible therefore to diftinguish the winged tribes according to the nature of their

Parfley, coffee, bitter almonds, &c. prove poilonous to hens, parrots, and many other birds, which eat these substances with avidity when presented with other food.

aliments. determined appetites of quadrupeds might countenance fuch a division;\* but in birds, where the tafte is fo irregular, it would be entirely nugatory. We fee hens, turkies, and other fowls which are called granivorous, eat worms, infects, and bits of flesh with greater avidity than grain. The nightingale, which lives on insects, may be fed with minced meat; the owls, which are naturally carnivorous, often when other prey fails, carch night-flies in the dark; nor is their hooked bill, as those who deal in final causes maintained, any certain proof that they have a decided propenfity for flesh, since parrots and many other birds which feem to prefer grain have also a hooked bill. The more voracious kinds devour fish, toads, and reptiles, when they cannot obwhich appear to feed upon grain,

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The more constant and appetites of quadrupeds infects. The arrangement derived from the nature of the food is thus totally destitute of foundation. No one character is sufficient: it requires the combination of many.

Since birds cannot chew, and the mandibles which represent the jaws are unprovided with teeth, the grains are swallowed whole, or only half bruised. † But the powerful action of the stomach serves them instead of massication; and the small pebbles, which assist in trituration, may be conceived to perform the office of teeth. †

As nature has invested the quadrupeds which haunt marshes, or inhabit cold countries, with a double fur, and with thick close hair; so has she clothed the aquatic birds, and those which live in the northern tracts, with abundance of plumage, and a fine down; infomuch that, from this circumstance alone, we

may

<sup>\*</sup> Frisch, whose work is in many respects valuable, divides all birds into twelve classes. The first contains the small birds, with a thick short bill, which split seeds into two equal portions; the second includes the small birds with a stender bill, that eat slies and worms; the third comprehends the black-birds and thrushes; the fourth, the woodpeckers, cuckoos, hoopees, and parrots; the fifth, the jays and magpies; the fixth, the rooks and crows; the seventh, the diurnal birds of prey; the eighth, the nocturnal birds of brey; the ninth, the wild and tame poultry; the tenth, the wild and tame pigeons; the cleventh, the gees, ducks, and other swimming animals; the twelfth, the birds which are fond of water and wet places.—We cassly see that the instinct of opening feeds in two equal portions ought not to be adopted as a character, since in this same class there are birds, such as the titmice, that do not split then, but pierce and tear them; and that, besides, all the birds of this sirst class, which are supposed to subsist solve on seeds, feed likewise on infects and worms: it was better, therefore, as Linneuts has done, to join them into one class.

<sup>+</sup> In parrots, and many other birds, the upper mandible is moveable as well as the under; whereas in quadrupeds the lower jaw only is moveable.

<sup>†</sup> In no animals is the mode of digeftion to favourable as in birds to the fystem of trituration. Their gizzard has the proper force and direction of fibres; and the voracious kinds, which greedily finatch the feeds on which they feed without stopping to separate the hard crust which envelopes them, swallow at the same time little stones, by means of which the violent contraction of the coats of the stonach bruites and detaches the shell. This is a real trituration, which in other animals is performed by the teeth. But, after the feeds are decorticated, the action of a solvent may take place; and there is a fort of bag from which a large quantity of a whitish liquor flows into the stonach, for in a recently dead bird it may be presided out. Helvetius subjoins, that sometimes in the zesophagus of the cormorant, fish are found half digested. Hist. de l'Academie des Sciences,

Seventy doubles were found in the stomach of an ostrich, most of them worn three-fourths, and surrowed by their rubbing against each other, and against the pebbles, but not at all affected by solution, for some which happened to be crooked were quite polithed on the convex side, while the concave side was not altered. Memoires pour fervir a l'Histoire des Animaux.

A Spanish gold piftole swallowed by a duck had lost fixteen grains of its weight when golded. Co lest. Acad. Partie Etrangere.

may judge of their proper element, or of their natal region. In all climates, the birds which dwell in the water are nearly equally feathered, and have under the tail large glands, containing an oily fubstance for anointing their plumes, which, together with their thickness, prevents the moisture from infinuating. These glands are much smaller in the land-birds, or totally wanting.

Birds that are almost naked, such as the offrich, the caslowary, and the dodo, occur only in the warm All those which inhabit climates. cold countries are well clothed with plumage. And for the same reason, those which foar into the higher regions of the atmosphere require a thick covering, that they may encounter the chilness which there prevails. If we pluck the feathers from the breast of an eagle, he will no longer rife out of our fight.

The greater number of birds cast their feathers every year, and appear to fuffer much more from it than the quadrupeds do from a fimilar change. The best fed hen ceases at that time to lay. organic molecules feem then to be entirely spent on the growth of the new feathers. The feafon of moulting is generally the end of fummer or autumn.\* and their feathers are not completely reflored till the beginning of spring, when the mildness of the air, and the superabundance of nutrition, urge them to love. Then all the plants shoot up, the flumber, and the earth fwarms with animation. This ample provision fosters their ardent passions, and offers abundant subsistence to the fruits of their embrace.

We might deem it as effential to the bird to fly, as it is to the fifth to fwim, or to the quadruped to walk; their wings.

yet in all these tribes there are exceptions to the general property. Among quadrupeds the rufous, red and common bats, can only fly; the feals, the fea-horses, and feacows, can only fwim; and the beavers and otters walk with more difficulty than fwim: and, laftly, there are others, fuch as the floth, which can hardly drag along their bodies. In the same manner, we find among birds the offrich, the cassowary, the dodo, the touyou, &c. which are incapable of flying, and are obliged to walk; others, fuch as the penguins, the fea-parrots, &c. which fly and swim, but never walk; and others, in fine, which, like the bird of paradife, can neither walk nor fwim, but are perpetually on the wing. It appears, however, that water is, on the whole, more fuited to the nature of birds than to that of quadrupeds; for, if we except a few species, all the land animals shun that element, and never fwim, unless they are urged by their fears or wants. Of the birds, on the contrary, a large tribe constantly dwell on the waters. and never go on shore, but for particular purposes, such as to deposit their eggs, &c. And what proves this polition, there are only three or four quadrupeds which have their toes connected by webs; whereas we may reckon above three hundred birds which are furnished with such membranes. The lightness of their feathers and of their bones, and infects awaken from their long even the shape of their body, contribute greatly to the facility with which they fwim, and their feet ferve as oars to impel them along. Accordingly, certain birds discover an early propenfity to the water; the ducklings fail on the furface of the pool long before they can ule,

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<sup>\*</sup> Domestic fowls generally moult in autumn; partridges and pheafants, before the end of the fummer; and fuch as are kept in parks, cast their feathers immediately after their first hatch. In the country, the pheasants and partridges undergo that change about the close of July, only the semales which have had young are some days later, Wild ducks moult rather before that time. - I owe these remarks to M. Le Roy, king's ranger at Verfailles,

are almost cartilaginous: fo that,

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fenses which nature has established taste the second; fight the third; hearing the fourth; and smell the fifth and last. In quadrupeds, smell is the first; taste the second, or rather these two senses form only one; fight the third; hearing the fourth; and touch the last. In and fmell the last. The predominating fenfations will also follow most affected by touch; the quadrupeds by fmell; and the birds by cast to the general character, since certain motives of action will ac-Thus, man will be afcendancy. more thoughtful and profound, as the lense of touch would appear to be more calm and intimate; the quadrupeds will have more vehement appetites; and the birds will have emotions as extensive and volatile as is the glance of fight.

But there is a fixth fense, which, though it intermits, feems, while it acts, to controul all the others, and excites the most powerful emotions, and awakens the most ardent affections:-it is love. In quadrupeds, that appetite produces violent effects; they burn with maddening defire; they feek the female with labours to the support of the young, favage ardor; and they embrace appears clearly from the case of the with furious extacy. In birds it domestic fowls. The male ranges is a fofter, more tender, and more at will among a feraglio of submiffive endearing passion; and, if we ex- concubines; the season of love has

In quadrupeds, especially those cept those which are degraded by which have their feet terminated domestication, and a few other speby hard hoofs or nails, the palate cies, conjugal fidelity and parental feems to be the principal feat of affection are among them alike contouch as well as of tatte. Birds, spicuous. The pair unite their laon the other hand, oftener feel bours in preparing for the accombodies with their toes; but the infide modation of their expected progeny; of these is covered with a callous and, during the time of incubation, Ikin, and their tongue and mouth their participation of the same cares and folicitudes continually augon both accounts, their fensations ments their mutual attachment. After the eggs are hatched, a new Such then is the order of the fource of pleasure opens to them, which further strengthens the ties in the different beings. In man, of affection; and the tender charge touch is the first, or most perfect; of rearing the infant brood requires the joint attention of both parents. The warmth of love is thus fucceeded by calm and fleady attachment, which by degrees extends, without suffering any diminution, to the rifing branches of the family.

The quadrupeds are impelled by birds, fight is the first; hearing the unbridled lust, which never foftens fecond; touch the third; and taste into generous friendship. The male abandons the female as foon as the cravings of his appetite are cloyed; the same order: man will be the he retires to recruit his strength, or hastens to the embraces of another. The education of the young is These will likewise give a devolved entirely on the female; and as they grow flowly, and require her immediate protection, the quire peculiar force, and gain the maternal tenderness is ripened into a strong and durable attachment. In many species the mother leads two or three litters at one time. There are some quadrupeds, however, in which the male and female affociate together; fuch are wolves and foxes: and the fallow-deer have been regarded as the patterns of There are also conjugal fidelity. some species of birds where the cock separates after fatisfying his passion; -but fuch instances are rare, and do not affect the general law of nature.

That the pairing of birds is founded on the need of their mutual

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never feeks to breed, until her prolific powers are deadened, and almost exhausted: besides, they bestow little care in making their neft, they are abundantly supplied with provisions, and by the allistance of man they are freed from all those toils and hardships and solicitudes which other birds feel and share in common. They contract the vices of luxury and opulence, indolence

and debauchery. The easy comfortable condition of the domestic fowls, and their generous food, mightily invigorate the powers of generation. A cock can tread twelve or fifteen hens, and each embrace continues its measure to repair her loss. influence for three weeks; fo that he may each day be the father of three hundred chickens. A good hen lays a hundred eggs between the fpring and autumn; but in the favage state she has only eighteen or twenty, and that only during a fingle season. The other birds indeed repeat oftener their incubations, but they lay fewer eggs. The pigeons, the turtles, &c. have only two; the great birds of prey three or four; and most other birds five or fix.

Want, anxiety, and hard labour, check in all animals the multiplication of the species. This is particularly the case with birds; they breed in proportion as they are well fed, and afforded cale and comfort. In the state of nature, they feem even to husband their prolific powers, and to limit the number of their progeny to the penury of their circumstances. A bird lays five eggs, perhaps, and devotes her

hardly any bounds; the hatches are whole attention during the reft of frequent and tedious; the eggs are the fealon to the incubation and often removed; and the female education of the young. But if the nest be destroyed, she soon builds another, and lays three or four eggs more; and if this be again plundered, the will conftruct a third, and lay still two or three eggs. During the first hatch, therefore, those internal emotions of love which occasion the growth and exclusion of the eggs, are repressed. She thus facrifices duty to passion, amorous defire to parental attachment. But when her fond hopes are disappointed, she soon ceases to grieve; the procreative faculties, which were suspended, not extinguished, again resume their influence, and enable her in fome

> As love is a purer passion in birds than in quadrupeds, its mode of gratification is also simpler. Coition is performed among them only in one way," while many other animals embrace in various postures:+ only in some species, as in that of the common cock, the female fquats; and in others, fuch as the sparrows, the continues to stand erect. In all of them the act is transitory, and is still shorter in those which in their ordinary attitude wait the approach of the male, than in those which cower to receive him.t The external form, and the internal structure of the organs of generation are very different from what obtains in quadrupeds. The fize, the polition, the number, the action and motion of these parts even vary much in the leveral species of birds. § In fome there appears to be a real penetration; in others, a vigorous compression, or slight touch.

To concentrate the different prin-

Ariftotle, lib. v. 8.

<sup>+</sup> The the-camel fquats; the the elephant turns upon her back; the hedgehogs couple face to face, and either in an erect or reclined posture; and monkies in every manner.

Aritotic, lib. y. 2.

Mult birds have two yards, or a forked one projecting from the anus. In fome Aristotle, lib. v. 2. fpecies the male organ is exceedingly large; in others hardly visible. The female orifice is not fitnated, as in the quadrupeds, below the anus, but above it; and there is ho matrix, &c.

of the causes which prompt their frequent excursions and migrations: that their ear being delicate, they are alarmed by fudden noifes, but may be foothed by foft founds, and allured by calls: that their organs of voice being exceedingly powertheir feelings in loud refounding strains: that, as they have more figns and inflexions, they can, better than the quadrupeds, express their meaning: that eafily receiving, and long retaining the impressions of founds, the organ delights in repeating them; but that its imitations are entirely mechanical, and have no relation to their conceping obtuse, they have only imper- of morality. fect ideas of bodies: that they re-

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ciples established in this discourse: ceive their information of distant that the fenforium of birds contains objects from fight, not from finell? chiefly the images derived from the that as their tafte is indifcriminatfense of fight; and these, though ing, they are more prone to vorafuperficial, are very extensive, and, city than sensuality: that, from the for the most part, relate to motion, nature of the element which they to distance, and to space : that com- inhabit, they are independent of prehending a whole province within man, and retain their natural hathe limits of their horizon, they bits; that, for this reason, most of may be faid to carry in their brain them are attached to the fociety of a geographical chart of the places their fellows, and eagerly convene: which they view: that their facility that, being obliged to unite their in traverling wide territories is one exertions in building a neft, and in providing for their offspring, the pair contract an affection for each other, which continues to grow, and then extends to the tender brood: that this friendship restrains the violent passions, and even tempers love, and begets chastity and purity ful and foft, they naturally vent of manners, and gentleness of difposition: that, though their power of fruition is greater than in other animals, they confine its exercise within moderate bounds, and ever subject their pleasures to their duties: and, finally, that thefe fprightly beings, which nature would feem to have produced in her gay moments, may be regarded as a ferious and decent race, which exhibit exceltions: that their fense of touch be- lent lessons and laudable examples

#### ACCOUNT THE ISLAND OF CELEBES.

BY THOMAS FORREST, ESQ.

[ Concluded from Page 118.]

the collection of port duties, the latter infifting on what for many years they had enjoyed, and for of. Mr. Herbert, however, took of it. He was allowed to take with

TEXT day we heard there was the alarm, and went on board the a misunderstanding between Britannia, at the same time sent me the fultan and the Buggesses about to reconnoitre the little Paternosters, a group of thirteen small illands already mentioned.

I was about four days gone, and which they had always defended the on my return found that three days freedom of the port from Dutch in- after Mr. Herbert went on board fluence. At this time we had landed the Britannia, Teroway, a Buggets many bales of long cloth white and orancayo, and his men, had furblue, iron and lead, from the Bri- rounded the fultan's fort, and forced tannia, which Mr. Edward Coles, him to leave Passir, and retire to the appointed refident, was disposing another river about 100 miles south

him all his property without the called Dattoo Teting, is related in least restraint. I was next day sent my voyage to New Guinea, in Feon shore by Mr. Herbert to bring off the Company's goods. I found the greatest tranquillity in the place, as if nothing had happened, notwithstanding the recent revolution.

Teroway behaved with the greatest civility to Mr. Coles and myself, and lamented our intended departure. Mr. Coles, after fending off the Company's goods, embarked on board the Britannia, by Mr. Herbert's politive order, though much against his own opinion and wishes, as at this very time a number of Buggess prows entered the river loaded with rich cargoes, and we had purchased a good deal of opium of Capt. Clements, from Bengal, of which these prows were in great want. Passir, as a factory, would certainly have been very advantageous to the Company, its fituation being very centrical; and, as I was only a spectator in this business, I must own, in my opinion, Mr. Coles was right, and Mr. Herbert was rather impatient and irrefolute. The revolution being quietly brought about without bloodshed, and there being not the least danger of another, was the moment for us to fix, under the protection of the Buggesses, and without any charge of guard and garrison, quietly trade as in China (paying only a moderate duty of five per cent, but no port duty or measurement whatever, as in China), in a plentiful country of great re-

From Passir, the Britannia went to Sooloo, where opium is not in great demand, Celebes being its great mart. From Sooloo, the Britannia went to Balambangan, the capture of which place by the Sooloos, under a certain flurdy baron Kydeepan -

my voyage to New Guinea, in February 1775.

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I have thought proper to mention the above incident at Passir, as it shews something of the character of They are by far the Buggesses. men of the most honour of any of the Malay cast I ever met with, are really a distinct people, and have fomething free and dignified in their manner superior to other Malays.\* After the Count d'Estaing destroyed and abandoned Fort Marlbro', in 1760, many Buggels prows came there to trade. I fold them many chefts of opium for dollars and Persian rupees, imported by the French, no doubt, from Gambaroon; and though they were under no reftraint, they behaved with great honour and fairness to me, who was entirely in their power. Fort Marlbro' was refettled some months afterwards by Capt. Vincent, of the Ofterly, who was fucceeded by Mr. Audly from Madras.

In the above-mentioned voyage, page 228, I observed, that Malfalla, a relation of the fultan of Mindano, brought seventy slaves from Celebes, One of them, a very decent Buggels, named Setoppo, told me the Dutch get gold from the north coast of that island, including Manado,

to a great amount.

Tontolce, rather on the N.W. coast under Mandar,

Produces tayels of a dollar and a half weight, yearly - -Bole, lying east Tontolee - 5,000 Boliman - - - -Koandang, under Mander,

where are good horfes, and off which are many small

islands - - - - - 3,000 Bolang Itam 300 200

<sup>\*</sup> The Macaffars and Buggefs people, who come annually to trade at Sumatra, are looked upon by the inhabitants as their superiors in manners; the Malays affect to copy their flyle of drefs, and frequent allufions to their feats and achievements are made in their fongs. Their reputation for courage, which certainly surpasses that of all others in the eastern feas, acquires them this flattering distinction; they also derive part of the respect shewed to them, from the richness of the cargoes they import, and the spirit with which they fpend the produce. Mariden's Sumatra, p. 172.

Amoran, where is much rice and a harbour - - - 1,000 Bolong, producing wax, birds

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nests, and much rice - - 5,000 Manado and Gorantellu - - 5,000

Tayels 24,800 which at 51. the tayel is, pounds flerling 124,000. The Dutch garrison their different possessions on this island, with about 8 or 900 Europeans, and country troops.

The Dutch gain much on their copper money, which going amongst the highlanders, and often worn as ornament (by children especially), never returns. About the year 1770, the Dutch obliged the inhabitants of Limboton to build a fort near Koandang, 500 feet square; the walls three fathoms high. Setoppo could have no view in deceiving me in this account. The poor man was ill at the time he gave it me.

I shall now describe the great gulf (Sewa) from the information of Noquedah Inankee, who has already been mentioned. I presented the Noquedah with a set of the charts (Pata), and views of land (Toolisan) of my New Guinea voyage; on each of which he wrote name and explanation in the Buggess language, and was much gratified with the present.

Having passed the strait between Celebes and Salayer, called the Buggeroons, keep on in a direction N. E. by N. about 130 miles, and you will find, near the west coast of the Sewa, a small island called Baloonroo: it is visible eight or ten leagues off, and has on its east end some rocky islots; they must be lest on the left hand going north. Further on, about a day's fail, which I fix at fixty miles, is the mouth of the river Chinrana: this river takes its rife in the Warjoo country, and passes through Bony; the capital of which is called Tofforo, and lies a day's journey by water from the

muddy bar, passable by large ships, and navigable a good way up. It has several mouths; and there are many towns on its banks, as has been said in both the divisions of Bony and Warjoo, where a great trade is carried on in gold, rice, sago, cassa, tortoise-shell. pearls, swallow, agal-agal, &c. &c. The anchorage is good off the river's mouth.

Half a day's fail further N. along the west coast of the Buggess Bay or Sewa, is the river Peeneckee, not very considerable. Further on are two places called Akolingan and Telludopin on the said west coast; they are pretty well inhabited.—Continuing still N. you come to the river Sewa, not very considerable; then to the river Loo, samous for boat building: then you come to Mankakoo, where there is gold and much sago very cheap: they have also cassa and seed pearl.

Being now come to the bottom of the Buggess Bay, the sago-tree abounds very much; and in many parts of the Sewa there are spots of foul ground on which they sift for swallow, which they generally carry to Macassar, to sell to the China Junk.

On the east side of the Sewa the country is not so well inhabited as on the west side; the S. E. point of the Sewa is called Pajungan; here is a cluster of islands, rather small, with good anchorage amongst them. Having left the Bay, you come to the high mountains of Cabayan, and the island Booton, where lives a prince independent of any Buggess power, but, I believe, under Dutch influence.

on the left hand going north. Further on, about a day's fail, which I fix at fixty miles, is the mouth of the river Chinrana: this river takes its rife in the Warjoo country, and paffes through Bony; the capital of which is called Tofforo, and lies a day's journey by water from the mouth of the river; it has a good

famba, and Tubang, which last has confidered as much the fame as a harbour. The high peak of Bally, bearing N. by E. from Carang-Affem road, is called Agong, and the high peak of Lomboc, Ran-

gamy.

I also learned from him, that that part of Lomboc opposite to Bally is called Saila, where is the road of Tanjong Carang (rocky point), into which you run over a rocky entrance, with fix fathoms depth for 200 yards. In the S. E. corner of this road is a harbour called Tring, with feven and eight fathoms muddy

ground.

He also told me, that on the N. W. part of Lomboc is a harbour called Kombang. I consider all this information about Tanjong Carang road, Tring and Kombang harbours, as good hints. If thips go this way, it is furely worth while to fend boats to reconnoitre the truth. I can never believe Inankee wanted to deceive; but the ideas of Malays in general (accustomed to fmall veilels) and ours are different with respect to harbours: he called Lomboc Strait Kallat Banco-banco, which means Whirlpool Strait .---Banco is a Bally word, Kallat a Malay word, fignifying flrait: and here I cannot help mentioning the coinfortable and cheap refreshment that is to be had at Carang-Affem (Rough Stone): fee Dalrymple's maps; amongst which is a view of Bally Peak (Agong). Bullocks three dollars a-head, hogs a dollar; ducks twelve for a dollar, fowls twenty; rice very cheap; and the great convenience of watering by their country canoes, that will carry on board twenty or thirty gang casks for a dollar, two casks at a time. Bring the Peak (Agong) N. by E. and anchor in ten fathom fand and mud, a mile from shore, entirely out of earth, the gold subsides; they then small river, and get excellent water. more or less gold at the bottom, at

on that island, named Padang, Ca- spoken of, also the animals, may be thole of Sumatra, and the former as much diverlified; of which Mr. Marsden gives a just account.

Inankee confirmed to me the account I have given in my voyage to New Guinea, of the Gentoos on Lomboc having large tanks on the hills for watering the rice-grounds

during dry weather.

The gold of Celebes is generally got, as on Sumatra, from the heds of rivers and torrents; and there are many springs issuing from crevices of rocks that bring some little gold along with the water, which, running through a veffel bottomed with land, leaves its treasure behind.

At Pulo Sinko, called Salida in fome maps, a Dutch settlement in Sumatra, I remember, in 1758, close by the sea fide, a small spring of frelh water running from a crevice of the rock equal to what iffues from an ordinary tea-urn; it ran into a small cask, about the fize of a burter firkin: fome years afterwards the cafk was full of fand and gravel. The refident, Mynheer Van-Kempen, in 1771, took it into his head to wash this gravel; for which purpose a canoe, lying close to the spring, presented itself as very convenient: he got from a firkin full of fand and gravel as much gold as made his lady a fizeable ring, which I faw on her finger,

Some rivers are famous for giving gold of a high touch; others give pale gold, of a low touch-Mas

moodo.

The Battas of Sumatra make tanks, well floored with planks, and place them near a brook or torrent; the tanks having gathered much-fediment, they turn in a buffalo, which being driven a good deal up and down amongst the wet the tide. The canoes go into a throw off the upper earth, and find The climate of Celebes, already cording to their good fortune.

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#### DISSERTATION ON THE PERSIANS.

BY SIR W. JONES.

[ Concluded from Page 122. ]

" firm belief that one Supreme God "providence; a pious fear, love, "and adoration of him; a due re-"verence for parents and aged per-"fons; a fraternal affection for the "whole human species; and a com-" passionate tenderness even for the "brute creation." A fystem of devotion fo pure and fublime could hardly, among mortals, be of long duration; and we learn from the Dabistan, that the popular worship of the Iranians, under Hushang, was purely Sabian; a word of which I cannot offer any certain etymology, but which has been deduced by grammarians from Sabà, a host, and particularly the host of heaven, or the celestial bodies, in the adoration of which the Sabian ritual is believed to have confifted. a description in the learned work just mentioned of the feveral Perfian temples dedicated to the fun and planets, of the images adored in them, and of the magnificent proressions to them on prescribed festivals, one of which is probably represented by sculpture in the ruined city of Jemshid. But the planetary worship in Persia seems only a part of a far more complicated religion which we now find in these Indian provinces; for Mohfan affures us, that, in the opinion of the best informed Perfians who professed the faith of Hushang, distinguished from that of Zerátusht, the first monarch of Iran and of the whole earth was Mahábád, a word apparently San-Vot. XI.

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II. THE primeval religion of four orders, the religious, the milithorities adduced by Mohfani Fani, vile; to which he affigned names was that which Newton calls the unquestionably the same in their oldest (and it may justly be called origin with those now applied to the the nobleft) of all religions; " a four primary classes of the Hindus. They added, that he received from "made the world by his power, and the Creator, and promulgated among "continually governed it by his men, a facred book in a heavenly language, to which the Muselman author gives the Arabic title of Defatir, or regulations, but the original name of which he has not mentioned: and that fourteen Mahabads had appeared or would appear in human shapes for the government of this world. Now when we know that the Hindus believe in fourteen Menu's, or celestial personages with fimilar functions, the first of whom left a book of regulations, or divine ordinances, which they hold equal to the Véda, and the language of which they believe to be that of the Gods, we can hardly doubt, that the first corruption of the purest and oldest religion was the system of Indian theology invented by the Bráhmans, and prevalent in those territories where the book of Mahabad, or Menu, is at this hour the standard of all religious and moral duties. The accession of Cay'umers to the throne of Perfia, in the eighth or ninth century before Christ, seems to have been accompanied by a confiderable revolution both in government and religion. He was most probably of a different race from the Mahábádians, who preceded him, and began perhaps the new fystem of national faith which Hushang, whose name it bears, completed; but the reformation was partial; for, while they rejected the complex polytheilm of their predecessors, they retained the laws of Mahábád with a superstitious veneration for the ferit; who divided the people into fun, the planets, and fire; thus refembling

which is very numerous at Banares, where many agnihótras are continually blazing; and where the Sagnicas, when they enter on their facerdotal office, kindle, with two pieces of the hard wood femi, a fire which they keep lighted through their lives for their nuptial ceremony, the performance of folemn facrifices, the obscquies of departed ancestors, and their own funeral pile. This remarkable rite was continued by Zerátusht; who reformed the old religion by the addition of genii, or angels, presiding over months and days; of new ceremonies in the veneration shewn to fire; of a new work which he pretended to have received from heaven; and, above all, by establishing the actual adoration of one Supreme Being. He was born, according to Mohfan, in the district of Rai; and it was he, not, as Ammianús afferts, his protector Gushtaih, who travelled into India, that he might receive information from the Brahmans in theology and ethicks. It is barely postible that Pythagoras knew him in the capital of Irak; but the Grecian fage must then have been far advanced in years, and we have no certain evidence of an intercourse between the two philosophers. The reformed religion of Persia continued in force till that country was fubdued by the Muselmans; and, without studying the Zend, we have ample information corcerning it in the modern Persian writings of several who profelled it. Bahman always named Zeratusht with reverence; but he was in truth a pure Theift, and firongly disclaimed any adoration of the fire or other elements: he denied that the doctrine of two coeval principles, supremely good and supremely bad, formed any part of his faith; and he often repeated with emphasis the verses of Firdausi on the prostration of Cyrus and his paternal grandfather before the blazing altar:

fembling the Hindu fects called "of fire, for that element was only Sauras and Ságnicas; the fecond of "an exalted object, on the luftre of " which they fixed their eyes; they " humbled themselves a whole week " before God; and, if thy under-" standing be ever so little exerted, " thou must acknowledge thy de-" pendence on the Being supremely " pure." In a story, Sadi, near the close of his beautiful Bustan, concerning the idol of Sómanát'h, or Mahádéva, confounds the religion of the Hindus with that of the Gabrs, calling the Brahmans not only Moghs (which might be justified by a passage in the Mesnavi), but even readers of the Zend and Pázend. Now, whether this confusion proceeded from real or pre-tended ignorance, I cannot decide; but am as firmly convinced that the doctrines of the Zend were distinct from those of the Veda, as I am that the religion of the Brahmans, with whom we converse every day, prevailed in Persia before the accession of Cay'umers, whom the Parfi's, from respect to his memory, consider as the first of men, although they believe in an univerfal deluge before his reign.

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With the religion of the old Perfians their philosophy (or as much as we know of it) was intimately connected; for they were affiduous observers of the luminaries, which they adored and established, according to Mohfan, who confirms, in some degree, the fragments of Berofus, a number of artificial cycles with distinct names, which feem to indicate a knowledge of the period in which the equinoxes appear to revolve: they are faid also to have known the most wonderful powers of nature, and thence to have acquired the fame of magicians and enchanters. But I will only detain you with a few remarks on that metaphyfical theology which has been professed immemorially by a numerous feet of Perfians and Hindus, was carried in part into Greece, and prevails even now among the learned Think not that they were adorers Muselmans, who sometimes avow it

without referve. The modern philosophers of this persuasion are called Sufis, either from the Greek word for a fage, or from the woollen mantle which they used to wear in fome provinces of Perfia. Their fundamental teners are, That nothing exists absolutely but God; that the human foul is an emanation from his effence, and, though divided for a time from its heavenly fource, will be finally re-united with it; that the highelt possible happiness will arise from its re-union; and that the chief good of mankind, in this tranfitory world, confifts in as perfect an union with the Eternal Spirit as the incumbrances of a mortal frame will allow; that, for this purpofe, they should break all connection (or taallik, as they call it) with extrinic objects, and pass through life without attachments, as a lwimmer in the ocean strikes freely without the impediment of clothes; that they should be straight and free as the cypreis, whose fruit is hardly perceptible, and not fink under a load like fruit-trees attached to a trellis; that if mere earthly charms have power to influence the foul, the idea of celestial beauty must overwhelm it in extatic delight; that, for want of apt words to express the divine perfections and the ardour of devotion, we must borrow such expressions as approach the nearest to our ideas, and speak of beauty and love in a transcendant and mystical fense; that, like a reed torn from its native bank, like wax feparated from its delicious honey, the foul of man bewails its difunion with melancholy music, and sheds burning tears, like the lighted taper, waiting passionately for the moment of its extinction, as a disengagement from earthly trammels, and the means of returning to its Only Beloved .-Such in part (for I omit the minuter and more fubtile metaphyfics of the Suns, which are mentioned in The Dabistan) is the wild and enthusiastic religion of the modern Perlian poets, especially of the sweet Hasiz and the its history has been ingrasted on that

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great Maulavi: fuch is the system of the Vedanti philosophers and best lyric poets of India; and as it was a fystem of the highest antiquity in both nations, it may be added to the many other proofs of an immemorial

affinity between them.

III. On the ancient monuments of Persian sculpture and architecture, we have already made fuch observations as were sufficient for our purpose; nor will you be surprised at the diversity between the figures at Elephanta, which are manifeltly Hindu, and those at Persepolis, which are merely Sabian, if you concur with me in believing, that the Takhti Jemshid was erected after the time of Cay'umers, when the Brahmans had migrated from Iran, and when their intricate mythology had been superfeded by the simpler adoration of the planets and of fire.

IV. As to the sciences or arts of the old Persians, I have little to fay; and no complete evidence of them is found to exist. Mohfan speaks more than once of ancient verses in the Pahlavi language; and Bahman affured me, that some scanty remains of them had been preserved. music and painting, which Nazámi celebrated, have irrecoverably perished; and in regard to Mání, the painter and impostor, whose book of drawings called Artang, which he pretended to be divine, is supposed to have been destroyed by the Chinese, in whose dominions he had fought refuge, the whole tale is too modern to throw any light on the questions before us concerning the origin of nations, and the inhabitants of the primitive world.

Thus has it been proved, by clear evidence and plain reasoning, that a powerful monarchy was established in Iran long before the Affyrian, or Píshdádi, government; that it was in truth a Hindu monarchy, though if any chuse to call it Cusian, Casdean, or Scythian, we shall not enter into a debate on mere names; that it subfifted many centuries; and that of the Hindus, who founded the monarchies of Ayódhyà and Indrapressha; that the language of the first Persian empire was the mother of the Sanfcrit, and confequently of the Zend and Farfi, as well as of Greek, Latin, and Gothic; that the language of the Affyrians was the parent of Chaldaic and Pahlavi; and that the primary Tartarian language also had been current in the same empire; although, as the Tartars had no books, or even letters, we cannot with certainty trace their unpolished and variable idioms .-We discover therefore in Persia, at the earliest dawn of history, the three distinct races of men, whom I described on former occasions as posfessors of India, Arabia, Tartary; and whether they were collected in Iran from diffant regions, or diverged from it, as from a common center, we shall easily determine by the following confiderations.

Let us observe, in the first place, the central polition of Iran, which is bounded by Arabia, by Tartary, and by India; whilft Arabia lies contiguous to Iran only, but is remote from Tartary, and divided even from the skirts of India by a confiderable gulf; no country, therefore, but Perfia, feems likely to have fent forth its colonies to all the kingdoms of Afia. The Brahmans could never have migrated from India to Iran, because they are expressly forbidden by their oldest existing laws to leave the region which they inhabit at this day; the Arabs have not even a tradition of an emigration into Perlia before Mohammed, nor had they indeed any inducement to quit their beamiful and extensive domains: and as to the Taitars, we have no trace in history of their departure

from their plains and forests till the invafion of the Medes, who, according to etymologists, were the fons of Madai; and even they were conducted by princes of an Affyrian family. The three races therefore, whom we have already mentioned (and more than three we have not yet found), migrated from Iran, as from their common country. And thus the Saxon chronicle, I presume from good authority, brings the fira inhabitants of Britain from Armenia; while a late very learned writer concludes, after all his laborious refearches, that the Goths or Scythians came from Persia; and another contends with great force, that both the Irish and old Britons proceeded feverally from the borders of the Calpian; a coincidence of conclusions from different media, by persons wholly unconnected, which could fcarce have happened, if they were not grounded on folid principles. We may therefore hold this proposition firmly established, that Iran, or Perha in its largest fense, was the true center of population, of knowledge, of languages, and of arts; which, instead of travelling wellward only, as it has been fancifully supposed, or eastward, as might with equal reason have been afferted, were expanded in all directions to all the regions of the world in which the Hindu race had fettled under various denominations. But, whether Alia has not produced other races of men distinct from the Hindus, the Arabs, or the Tartars, or whether any apparent divertity may not have forung from an intermixture of those three in different proportions, must be the subject of a future enquiry.

# ESSAY VII.—ON THE PROGRESS OF NAVIGATION.

Portuguefe Voyages in the Fifteenth, and Beginning of the Sixteenth Century.

N 1447, Nuno Triflan advanced Fernandez profecuting the fame I fixty leagues beyond Cape Verde, voyage, went forty leagues beyond and entered Rio Grande. Alvaro Triftan. A variety of voyages were

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The king of Portugal granted Prince Henry a patent to fettle the Cape Verde were discovered by Antonio de Nola, a Genoese, in the service of Portugal.

Pedro de Escobar penetrated as far latitude, and afterwards to Cape St. Catharine, in 21 degrees. Ferdinand Po also discovered the island that goes by his name. About the fame time the islands of St. Thomas, Anno Bono, and Principe, were discovered.

Being now fully intent on the profit to be derived from the trade, discoveries were not pursued with any great degree of alacrity. Howeyer, in 1480, James Cam ran as far along the coast as to the 22d degree of fouth latitude.

In 1486, Bartholomew Diaz was fent out with three ships to discover India. He had the good fortune to discover the fouthern promontory of Africa, which, from the storms he encountered there, he denominated Cape Tormentoso, but which, from the prospect it afforded of opening the way to India, was, by the king of Portugal, called the Cape of Good Hope.

Anno 1497. King Emanuel, who with the crown of Portugal had inherited the ambition of enlarging his dominions, and the defire of finding a way by fea to the East-Indies, appointed Vasco de Gama, a gentleman of undaunted spirit, admiral of those ships he designed for this expedition, which were only three, and a tender; their names were the St. Gabriel, the St. Ra-

now made to the coast of Africa, to land he came to after almost five months fail was the bay of St. Helena, where he took some blacks. The 20th of November he failed Azores; and, in 1462, the illands of thence, and doubled the Cape of Good Hope, and on the 25th touched at the Bay of St. Blas. 60: leagues beyond the aforefaid cape, In 1471, Juan de Santarem and where he exchanged some merchandize with the natives. Here he as La Mina, in the fifth degree of took all the provisions out of the tender, and burnt it. On Christmas-day they faw the land, which for that reason they called Terra. do Natal, that is, Christmas-Land; then the river they named De los Reyes, that is, of the kings, because discovered on the Feast of the Epiphany; and after that Cape Corrientes, passing 50 leagues beyond Zofala without feeing it, where they went up a river in which were boats with fails made of palm-tree leaves: the people were not fo black as those they had seen before, and understood the Arabic character, who faid that to the eastward lived penple who failed in vessels like those of the Portuguese. This river Gama called De Bons Sinays, or of Good Tokens, because it put him in hopes of finding what he came in fearch of. Sailing hence, he again came to an anchor among the islands of St. George opposite to Mozambique, and removing thence anchored again above the town of Mozambique in 14 degrees and a half of fouth latitude; whence after a short stay, with the assistance of a Moorish pilot, he touched at Quiloa, and Monbaza; and having at Melinda fettled a peace with the Moorish king of that place, and taken in a Guzarat pilot, he fet fail for India. and croffing that great gulph of 700 leagues in 20 days, anchored two phael and Berrio; the captains leagues below Calicut on the 20th Vasco de Gama admiral, Paul de of May. To this place had Gama Gama his brother, and Nicholas discovered 1200 leagues beyond Nunez, and Gonzalo Nunez of the what was known before, drawing tender, which was laden with pro- a straight line from the river Del wisions. Gama sailed from Lisbon Infante, discovered by Bartholomew on the 8th of July, and the first Diaz, to the port of Calicut, for in lailing

from the coast, he fell in with the diva on the 24th of August: then islands of Anchediva, signifying in coming to Calicut, peace and comthe Indian language five islands, because they are so many; and Zamorin, or king of Calicut, but having had fight of Goa, at a was soon broken, and the Portuguese distance, sailed over again to the coast of Africa, and anchored near the town of Magadoxa. At Melinda he was received friendly by the king, but being again under fail, the ship St. Raphael struck on the shore and was lost, giving her name to those fands: all the men were faved by the other two ships, which parted in a storm near Cabo Verde. Nicholas Coello ar-Nicholas Coello arrived first at Lisbon, and soon after him Vasco de Gama, having spent in his voyage two years and almost two months. Of 160 men he carried out, only 55 returned home, who were all well rewarded.

Anno 1500. King Emanuel, encouraged by the fuccess of Visco de Gama, fitted out a fleet of 13 fail under the command of Peter Alvarez Cabral, and in it 1200 men, to gain footing in India. He failed on the 8th of March, and meeting with violent storms was blown off from the coast of Africa so far, that on Easter Eve the fleet came into a port, which for the fafety found in it was called Seguro, and the country at that time Santa Cruz, being the fame now known by the name of Brazil, on the fouth continent of America. Hence the admiral fent back a ship to advertise the king of the accidental new discovery, leaving two Portuguele ashore to enquire into the customs and product of the land. Sailing thence on the 12th of May for the Cape of Good most dreadful storm, infomuch that the fea fwallowed up four ships, and the admiral arrived with only fix at Zofala on the 16th of July,

failing about by the coast it is much Melinda, whence the fleet flood Returning home not far over for India, and reached Anchemerce was there agreed on with entered into strict amity with the kings of Cochin and Cananor, where they took in their lading and

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returned to Portugal.

Anno 1501. John de Nova de-parted from Lisbon with four ships and 400 men, and in his way difcovered the island of Conception, in eight degrees of fouth latitude, and on the east side of Africa that which from him was called the island of John de Nova. At Cananor and Cochin he took in all his lading, destroying many vessels of Calicut, and in his return home found the island of St. Helena in 15 degrees of fouth latitude, distant 1549 leagues from Goa, and 1100 from Lisbon, being then unpeopled, but fince of great advantage to all that use the trade of India.

Anno 1502. The king fet out a fleet of 20 fail commanded by the first discoverer of India, Vasco de Gama, whose second voyage this was. No new discoveries were was. made by him, but only trade fecured at Cochin and Cananor, several ships of Calicut taken and destroyed, the king of Quiloa, on the coast of Africa was brought to submit himfelf to Portugal, and pay tribute; and Vasco de Gama returned home with nine ships richly laden, leaving Vincent Sodre behind with five fhips to fcour the coasts of India, and fecure the factories there.

Anno 1503. Nine ships were sent under three feveral commanders, Hope, the fleet was for 20 days in a Alfonso de Albuquerque, Francis de Albuquerque, and Antony de Saldanha, each of them having three ships. The Albuquerques with permission of the king built a fort and on the 20th at Mozambique; at Cochin, burnt some towns, took where having refitted, he profecuted many ships of Calicut, and then rehis voyage to Quiloa, and thence to turned richly laden homewards,

where

ships, but Francis and his were never more heard of. Saldanha the third of these commanders, gave his name to a bay short of the Cape of Good Hope, where he endeavoured to water; but it cost the blood of some of his men, and therefore the place was called Aguada de Saldanha, or Saldanha's watering-place. Thence proceeding on his voyage, he obliged the king of Monbaza on the other coast of Africa to accept of peace; and then went to cruize upon the Moors at the mouth of the Red-Sea, which was the post appointed him.

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Anno 1504. Finding no good was to be done in India without a confiderable force, King Emanuel had been yet built in Portugal, and in them 1200 men, all under the command of Lope Soarez, who made no further discoveries, only concluded peace with Zamorin, and returned rich home.

Anno 1505. D. Francisco de Almeyda was fent to India, with the title of viceroy, carrying with him 22 ships, and in them 1500 men, with whom he attacked and took the town of Quiloa on the east coast of Africa, and in about 9 degrees of fouth latitude, where he built a fort; then burnt Monbaza on the same coast in four degrees, and third at Gananor on the Malabar

Anno 1506. James Fernandez Pereyra, commander of one of the ships left to cruize upon the mouth of the Red-Sea, returned to Lisbon with the news of his having difcovered the island Zocotora, not far diftant from the faid mouth, and famous for producing the best March this year failed from Lifbon

where Alfonso arrived safe with his the trading ships, the latter to cruize on the coast of Arabia: in their passage they had a fight of Cape St. Augustin in Brazil; and standing over from thence for the Cape of Good Hope, Tristan da Cunha ran far away to the fouth, and discovered the islands which still retain his name. Sailing hence, some discovery was made upon the island of Madagascar, that of Zocotora subdued, and the fleet failed part for the coast of Arabia, and part for India. In the former Albuquerque took and plundered the town of Calayate, the same he did to Mascate, Soar submitted, and Orfuzam they found abandoned by the inhabitants. This done, Albuquerque failed away to Ormuz, then first seen by Europe-This city is feated in an ans. fitted out 13 ships, the largest that island, at the mouth of the Perfian gulph, so barren that it produces nothing but falt and fulphur, but it is one of the greatest marts in those countries. Hence Albuquerque failed to India, where he served some time under the command of the Viceroy Almeyda, till he was himself made governor of the Portuguese conquests in those parts, which was in the year 1510, during which time the whole business was to settle trade, build forts, and erect factories along the coasts already known, that is, all the east fide of Africa, the shores of Arabia, Pertia, Guzarat, Cambaya, Decan, failing over to India creeted another Canara, and Malabar; and indeed fort in the island Anchediva, and a they had employment enough, if well followed, to have held them many more years. But avarice and ambition know no bounds; the Portuguese had not yet passed Cape Comorin, the utmost extent of the Malabar coast, and therefore,

Anno 1510, James Lopez de Sequeira was fent from Lisbon with orders to fail as far as Malaca: this is a city feated on that peninfula, aloes, from it called Succotrina. In formerly called Aurea Chersonesus, running out into the Indian fea Alfonso de Albuquerque, and Trif- from the main land, to which it is tan du Cunha, with 13 ships, and joined by a narrow neck of land on 1300 men, the former to command the north, and on the fouth sepa-

a fmall strait or channel: Malaca was at that time the greatest emporium of all the further India. Thither Sequeira was fent to fettle trade, or rather to discover what the Moors who watched to destroy him, having failed of their defign to murder him at an entertainment, contrived to get thirty of his men ashore on pretence of loading spice, and then falling on them and the thips at the fame time killed eight Portuguese, took fixty, and the fhips with difficulty got away. However here we have Malaca discovered, and a way open to all the further parts of India. In his way to Malaca, Sequeira made peace with the kings of Achem, Pedir and Pacem, all at that time small princes at the north-west end of the island Sumatra. Whilft Sequeira was thus employed, Albuquerque affaults the famous city of Goa, seated in a fmall island on the coast of Decan, and taking the inhabitants unprovided, made himself master of it, but enjoyed it not long; for Hidalcan the former owner returning with 60000 men, drove him out of next year he again took it by force, and it has ever fince continued in the hands of the Portuguese, and been the metropolis of all their dominions in the east, being made of the city, killing or driving out an archbishop's see, and the resi- all the Moors, and peopling it dence of the viceroy who has the again with strangers and Malays,

rated from the island of Sumatra by government of all the conquests in those parts. Albuquerque flushed with this success, as soon as he had fettled all fafe at Goa, failed for Malaca with 1400 fighting men in ig fhips. By the way he took five advantages might be gained; but ships, and at his arrival on the coast of Sumatra was complimented by the kings of Pedir and Pacem. It is not unworthy relating in this place, that in one of the ships taken at this time was found Nehoada Beeguea, one of the chief contrivers of the treachery against Sequeira; and though he had received feveral mortal wounds, yet not one drop of blood came from him; but as foon as a bracelet of bone was taken off his arm, the blood gushed out at all parts. The Indians faid this was the bone of a beaft called cabis. which fome will have to be found in Siam, and others in the island of Java, which has this strange virtue, but none has ever been found fince. This being looked upon as a great treasure, was sent by Albuquerque to the king of Portugal, but the ship it went in was cast away, fo that we have loft the rarity, if it be true there ever was any fuch. Albuquerque failing over to Mait after a fiege of 20 days: yet the laca had the Portuguese that had been taken from Sequeira delivered; but that not being all he came for, he landed his men, and at the fecond affault made himfelf mafter

# ON THE OFFICES OF THANE AND ABTHANE.

BY ROBERT RIDDEL, ESQ.

From the Transactions of the Society of Antiquaries of Scotland.

Thane, which fignifies a fer-Thanedom, and afterwards a sheriffminal cases within his Thanedom.

reditary jurisdictions in Scotland, vant, held, under the king, a when they were annexed to the jurisdiction over a district called a crown, in 1748, I find, that in the year 1405, a precept was granted dom, or county. His office was to by Robert Duke of Albany, regent give judgement in all civil and cri- of Scotland, for infefting Donald, Thane of Calder, in his Thanedom, Upon perusing the claims of he- as heir at law to Andrew, Thane of Calder,

Calder, his father, to whom he had previously been served heir, and refheriff (or Thane) of Nairn, and was accordingly feifed of his lands and Thanedom, and the feifine is produced as a voucher in the year 1748. to prove the fact. By this it appears, that the Thanes of Calder exercised a jurisdiction over the Thanedom, and afterwards sheriffdom, of Nairn.

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The title of Earl, (an English dignity, derived from the Saxon word Ehre, fignifying honour, and the monofyllable all) was introduced in Scotland, first, by Malcolm Canmore, and gained ground, to the prejudice of the more ancient title of Thane. The title of Earl was often granted without any jurisdiction annexed to it, but the dignity of Thane, never. And this, perhaps, was the chief reason for its total difuse in the year 1476, when William, Thane of Calder, had his Thanedom erected into a free barony and regality. He was the last Thane in Scotland; for the crown, to add to its influence, then abolished this dignity.

thane of Dull and the western isles. land; he was confidered as the most bert II. powerful man in the kingdom.

It is generally thought that he exercifed the office of chief justiciar toured in the heritable offices of over the kingdom, perhaps in a fimilar manner as it was exercifed constable of the castle of Nairn. He by the family of Argyle, so late as the year 1628, when the Lord Lorn, heritable justiciar of all Scotland. did refign that high office to King Charles I.

In addition to the office of chief justiciar, Crinan, it is thought, was the king's fleward over the crown lands in the western isles, as well as a large district on the main land of Scotland, called Dull.

What the extent was of the crown's patrimony, called Dull, I do not know; but, in the claim of Sir Robert Menzies for the lordship of Apin O'Dull, in 1748, the Lord Advocate, in his reply, fays, that the lordship of Apin O'Dull was anciently a part of the patrimony of the crown. And it is natural to suppose that it was part of Crinan's Abthanedom.

The lordship of Apin O'Dull, as claimed by Sir Robert Menzies, comprehends the lands fituated in the parishes of Weem and Dull, and Logierait.

Crinan was the last Abthane in As to the very ancient title of Scotland; for his fon, Duncan I. Abthane, I am more at a lofs to appointed Bancho, Thane of Lochpoint out the nature and extent of aber, as his Dapifer or Senefcalus; its jurifdiction. I find Crinan, Ab- and Malcolm Canmore appointed Walter to the office of Dapifer do--He married Beatrix, the eldest mini regis, which became hereditary daughter of Malcolm II. and was in his family, until they succeeded father to Duncan I. king of Scot- to the throne, in the person of Ro-

# ACCOUNT OF THE CITY OF MECCA, AND THE PILGRIMAGE OF THE MUSSULMANS,

BY M. NIEBUHR.

day's journey from Jidda. fummer months, the heat is excessive Samiel. at Mecca; and, to avoid and mo-Vol. XI.

"HIS city is fituate in a dry and derate it as much as possible, the inbarren tract of country, a full habitants carefully flut their win-A few dows and water the streets. There leagues beyond it, nearer the high-lands, however, abundance of excel-cated in the middle of the fireets by lent fruits is to be found. In the the burning wind called Samoum or

As a great part of the first nobility

ings are better here than in any other and felling them to pilgrims. city in Arabia. Among its elegant edifices, the most remarkable is the famous Kaba, or house of God, which was held in high veneration by the Arabians, even before the

days of Mahomet.

My curiofity would have led me to fee this facred and fingular structure, but no Christian dares enter Mecca. Not that there is any fuch express prohibition in the laws of Mahomet, or that liberal-minded Mahometans could be offended; but the prejudices of the people in general, with respect to the fanctity of the place, make them think that it would be profaned by the feet of in-They even perfidel Christians. fuade themselves, that Christians are restrained from approaching it by a fupernatural power. They tell of an infidel, who audaciously advanced within fight of Mecca, but was there attacked by all the dogs of the city, and was fo struck with the miracle, and with the august aspect of the Kaba, that he immediately became Muffulman.

There is therefore ground for the prefumption, that all the Christians of Europe, who describe Mecca as eve-witnesses, have been renegadoes who have escaped from Turkey. A recent example confirms this fuspicion. Upon a promife of being fufto attend the Emir Hadgi to Mecca, he had not proceeded far, when he was forced to lubmit to circumcifion, and then fuffered to continue his

journey.

Although the Mahometans permit not Europeans to visit Mecca, they make no difficulty of deleribing the Kaba to them. I even obtained at Kahira a drawing of that holy place, which I had afterwards an opportunity of correcting, from another draught by a Turkish painter. This well of Zemzem, valued for the expainter gained his livelihood by cellence of its water, and no less for

in Hedias live at Mecca, the build- making fuch draughts of the Kaba,

To judge from those designs, and from the relations of many Musfulmans of fufficient veracity, the Kaba must be an aukward shapeless build. ing; a fort of square tower it is, covered on the top with a piece of black gold-embroidered filk fluff. This stuff is wrought at Kahira, and changed every year at the expence of the Turkish sultan. The gutters upon this building are of pure gold.

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What feems to be most magnificent about this facred edifice, is the arcades around the fquare in which the Kaba stands. They speak, in terms of high admiration, of a vast number of lamps and candlesticks of gold and filver with which those arcades are illuminated. However, even by those accounts, in which the truth is apparently exaggerated, the riches of the Kaba are far from equal in value to what is displayed in some catholic churches in Europe.

In the Kaba is particularly one fingular relic, which is regarded with This is the extreme veneration. famous black stone, said to have been brought by the angel Gabriel in order to the construction of that The Itone, according to edifice. the account of the clergy, was, at first, of a bright white colour, so as even to dazzle the eyes at the diftance of four days journey; but it fered to adhere to his religion, a wept fo long, and fo abundantly for French furgeon was prevailed with the fins of mankind, that it became at length opaque, and at last absoin the quality of his phylician. But lutely black. This stone, of so compassionate a character, every Musfulman must kiss, or at least touch, every time he goes round the Kaba. Neither the stone of Abraham, nor that of Ismael, receives the same honours; pilgrims are not obliged either to visit or to kis them.

> The Arabs venerate the Kaba, as having been built by Abraham, and having been his house of prayer .-Within the same inclosure is the

banished by her master, set little Isfind fome water to quench his thirst. Returning, after an unfuccefsful fearch, the was furprifed to fee a foring bursting up from the ground That between the child's legs. spring is the present well of Zemzem.

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Another ornament of the Kaba, is a row of metal pillars furrounding it. These pillars are joined by chains, on which hang a vast number of filver lamps. The porticos or arcades above-mentioned are defigned to protect the pilgrims from the torrid heat of the day. They anfwer likewife another purpole; for the merchants, of whom great numbers accompany the caravans, expose their wares for sale under those arcades.

The Mahometans have fuch high ideas of the fanctity of Mecca, that they suppose it to extend even to the environs of the city. Its territory is reputed facred to a certain distance round, which is indicated by marks fet for this purpose. Every caravan find one of those marks on their way, which warns the pilgrims to put on the modest garb which it becomes them to wear on that facred ground.

Every Mussulman, it is well known, is obliged. once in his life, to visit Mecca, and perform acts of devotion in the facred places. If this law were strictly observed, the concourfe of pilgrims would be immenfe; nor could the city contain fuch crouds from every country in which the Mahometan religion has been introduced. It may be prefumed, therefore, that none but fuch as are more than ordinarily devout discharge this duty.

Those indeed whose circumstances do not admit of their undertaking io distant a journey, are allowed to hire a person to persorm it for them. But a pilgrim, in this character, can aft for no more than one person at the same time; and, to prevent im-

its miraculous origin. Hagar, when posture, he must bring back a formal attestation from an Imam in Méccamael down here, while she should bearing, that he has actually performed the appointed devotional exercises in the holy places, in the name of fuch a person, living or dead; for, even after the death of a man, who, during his life, neglected the fulfilling of this point of the law, the duty may still be discharged in his name, and for his benefit. have fometimes met with pilgrims by profession, who had been ill paid by their employers, and were obliged to ask alms.

Few as the caravans are, in proportion to the numbers of the Musfulmans, even those few are compoled, in great part, of persons who go upon other motives than devotion; fuch as merchants, who think this the fafest opportunity for the conveyance of their goods, and the most favourable for the sale of them; purveyors of all forts, who furnish the pilgrims with necessaries; and foldiers, paid by the caravan for escorting them. From this it happens, that many persons have seen Mecca feveral times, without ever visiting it upon any but views of interest.

The most considerable of these caravans is that of Syria, commanded by the Pacha of Damascus. a certain distance from Mecca, it joins that from Egypt, which is the fecond in numbers, and is conducted by a Bey, who takes the title of Emir Hadgi. A third comes from Yemen; and a fourth, still smaller in numbers, from the country of Lachsca. A sew pilgrims come by the Red Sea, and from the Arabian fettlements on the coast of Africa: The Persians join that which is from Bagdad, and is conducted by the Pacha. His post is lucrative; for he fqueezes large fums from the Persian heretics.

When giving an account of what I faw on board our veffel, in the pallage between Suez and Jidda, I had occasion to speak of the Ihhram, and of the place where pilgrims are Bbs

obliged to assume the garb of humi- of devotion, he cannot obtain the lity. I may add, that they must title of Hadgi; an honour much proceed without delay to Mecca, as foon as they arrive on the border of the facred territory. A Greek renegado, who had come in our company from Suez, was disposed to rest for some time at Jidda; but the reproaches which he found thrown out upon him, for fuch an instance of indifference about the object of his journey, obliged him to fet off for Mecca fooner than was favourable to the state of his business in Tidda.

· Besides, it is truly advantageous to a pilgrim to haste forward to the holy places. If he has not been prefent from the commencement, at the celebration of all the ceremonies,

and performed every appointed act

coveted by the Turks, because it confers fubstantial privileges, and commands respect to those who bear it. The rarity of this title, in Mahometan countries, is a proof how negligently the law enjoining pilgrimage is observed.

A fimilar custom prevails among the Christians in the East, who also make much ado about the title of Hadgi or Mokdafi, which they gave to pilgrims of their communion. In order to acquire this title, it is not enough for a person to go in pilgri. mage to Jerusalem; he must spend the feafon of the passover in that city, and affift at all the ceremonies

in the holy weeks.

## AN ACCOUNT OF A STAG'S HEAD AND HORNS, FOUND AT ALPORT, IN THE COUNTY OF DERBY.

In a Letter from the Rev. Robert Barker, B. D.

From the Philosophical Transactions of the Royal Society of London.

that kind of stone which in this part upon each horn, in very perfect of the country we call tuft,\* at preservation, enclosed in it. about five or fix feet below the furface, in a very folid part of the rock, met with feveral fragments of the horns and bones of one or different Amongst the rest, out of animals. a large piece of the rock, which they got entire, there appeared the tips of three or four horns, projecting a few inches from it, and the scapula of fome animal adhering to the outfide of it. A friend of mine, to whom the quarry belongs, fent the piece of the rock to me in the state they got it, in which I let it remain for some time. But suspecting that they might be tips of the horns of fome head enclosed in the lump, I determined to gratify my curiofity by clearing away the stone from the horns. On doing which I found thrush's nest. I fend you the dimen-

BOUT five years ago, some that the lump contained a very men working in a quarry of large stag's head, with two antlers

> Though the horns are fo much larger than those of any stag I have ever feen, yet, from the futures in the skull appearing very distinct in it, one would suppose that it was not the head of a very old animal. I have one of the horns nearly entire, and the greatest part of the other, but so broken in the getting out of the rock, that one part will not join to the other, as the parts of the other horn do. The horns are of that species which park-keepers in this part of the country call throftle neft horns, from the peculiar formation of the upper part of them, which is branched out into a number. of fhort antlers which form an hollow about large enough to contain a

Tuft is a stone formed by the deposit left by water passing through beds of sicks, roots, vegetables, &c. of which there is a large firatum at Matlock Bath, in this county.

# Account of a Stag's Head and Horns, found in Derbysbire. 197

fions of the different parts of them, fome, if not all, of them probably fame species of a large stag, which have probably hung in the place from whence I procured them two or three or perhaps more centuries; Circumference at their inferand with another pair of horns of a different kind, which are terminated by one fingle pointed antler, and which were the horns of a fevenyear-old stag.

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The river Larkell runs down the valley, and part of it falls into the guarry where these horns were found, the water of which has not the property of incrusting any bodies it passes through. It is therefore probable, that the animal to which these horns belonged was washed into the place where they were found, at the time of some of those convultions which contributed to raife this part of the island out of the fea. Besides this complete head, I have feveral pieces of horns, bones, (particularly the scapula I mentioned above) and several vertebræ of the Length of the third ditto, - 0 10 back, found in the same quarry; Length of the horn,

compared, with the horns of the belonging to the animal whose head is in my possession.

Dimensions of the horns found at Alport. Ft. In.

tion into the corona, - 0 9% Length of the lowest antler, 1 2 Length of the fecond ditto, 0 111 Length of the third ditto, - 1 15 Length of the horn, - - 3 Dimensions of a large pair of throstlenest horns.

Circumference at their infer-

tion into the corona, Length of the lowest antler, 1 Length of the fecond ditto, o 10 ! Length of the third ditto, - 0 111 Length of the horn, Dimensions of the horns of a stag seven years old.

Circumference at their infertion into the corona, Length of the lowest antler, o 9

Length of the fecond ditto, o 10

## OBSERVATIONS ON THE LATE CONTINUANCE OF THE USE OF TORTURE IN GREAT BRITAIN.

In a Letter from George Chalmers, Efq. F.R. and A.SS. From the Transactions of the Society of Antiquaries of London.

Prefumed to think, that whatever had a tendency to trace the modes of our government, or to mark the improvement of our freedom, would not be deemed by you altogether unworthy of your learned curiofity. And I was thus induced to communicate to you a copy of a warrant of the privy council, as late as 1620, for using torture on a person, who was suspected of treason; which, as a link connecting former practice with subsequent disfuetude, may be regarded as an instructive document. The following is an authentic

copy from the record.

"To the Lieutenant of the Tower " of London.

"Whereas Samuel Peacock was

Office for Trade, Whitehall, March, 1791. "heretofore committed prisoner to " the Marshalfea, and that now it is " thought fit upon vehement fuspi-"cion of high treason against his " majesty's facred person to remove " him thence, and to commit him to " the Tower; these shall be there-"fore to will and require you to " repair to the prison of the Mar-" fhalfea, and there to receive from " the keeper of that house the person " of the faid Samuel Peacock, and " him faiely to convey under your " cuflody unto the Tower of Lon-"don, where you are to keep him " close prisoner until further order. " And whereas we have thought " meet to nominate and appoint Sir

" Henry Montague, knt. Lord Chief " Juffice

" felf, to examine the faid Peacock, " for the better discovery of the "truth of this treason; this shall be " likewise to authorize you, or any "two of you, whereof yourfelf to " be one, to examine the faid Pea-"cock from time to time, and to " put him, as there shall be cause, " for the better manifellation of the " truth, to the torture, either of the " manacles, or the rack; for which this shall be your warrant. And " fo, &c. The 19th of February, " 1619."

Allow me to subjoin a few observations. The Lieutenant of the Tower, who was thus entrusted, was Sir Allan Apfley. The privy counfellors, who directed that measure, judges declared, that confistent with and figned that warrant, were the law torture could not be used, as Lord Chancellor Bacon, the Earl of Rushworth has recorded. Worcester, who was then Lord Privy Seal, the Earl of Arundell, such the happy disuse of torture in the Lord Carew, Lord Digby, Mr. England! Yet, in Scotland. the Secretary Naunton, and Sir Edward Coke, who, after he had ceased to be chief justice, as a privy counsellor fometimes fanctioned practices, which he lived to condemn as a writer.

But the filence of the record does not allow us to suppose, that the king was either present, or knew of this transaction.

When Sir Edward Coke published his second Institute, he gave it as his opinion, that torture was prohibited by the following words of the great charter: "Nullus liber " homo aliquo modo destruatur nisi per · tegale judicium parium suorum, aut " per legem terrae." Nevertheless I fear, that if our criminal proceedings, from that great epoch to the accession of the Tudor family, were fearched with malicious diligence, many instances of torture would be learned Lord St. found, though Magna Charta was, Sir George Mack meanwhile, confirmed by several down before him. flatutes. During the reigns of the

" Justice of the King's Bench, Sir she could not be persuaded that a Thomas Coventry, knt. his ma- book was really written by the per-" jefty's Solicitor General, and your- fon whose name it bore, she faid with great indignation, that she would have him racked, to produce his author. I replied, " Nay, madam, he is a doctor, never rack his person, rack his style; let him have pen, ink, and paper, and help of books, and be enjoined to continue his story, and I will undertake by collating the flyles, to judge whether he were the author." The rack was fhewn to Guy Fawkes on his examination, as King James himself re-lates. Torture was used on Peacock in 1620, as the warrant beforementioned evinces. When Felton affaffinated Buckingham in 1628, and the question was proposed for discovering his accomplices, the

> Such was the former practice; and rack continued to terrify and debafe the people for ages afterwards. Sir George Mackenzie has a whole chapter Of Torture; thewing that the privy council, or the supreme judges, could only use the rack; how those were punished who inflicted torture unjustly; and who were the persons that the law exempted: and he infifts, that all lawyers were of opinion, that even after fentence criminals might be tortured, for knowing their accomplices. Yet, he shews incidentally, that though the practice of torture continued in Scotland till the Revolution, yet the privy council refused, in 1666, to order the Covenanters to be racked after condemnation; affigning as a reason, " Nam post condemnationem, "judices functi funt officio." The learned Lord Stair confirms what Sir George Mackenzie had thus laid

It is very remarkable, that when Tudors, torture was often used upon the parliament of Scotland framed flight occasions. Lord Bacon re- their claim of right, in April 1689, lates of Queen Elizabeth, that when they only declared, that the using

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to prove, that when there was evidence of extraordinary crimes, tor- shall be liable to torture. ture might still be lawfully used in fure brought with it, that freed Scotit was the act of the British parliaimproving the union of the two to yourfelf.

torture, without evidence, or in or- kingdoms, that put an end to tordinary crimes, is contrary to law. ture, by enacting, among other fa-It requires no elaborate commentary vourable regulations, that no perfon accused of any crime in Scotland

Such are the observations which Scotland subsequent to the Revolu- hastily occurred to me on perusing tion. It was the union, and the fa- the before recited warrant. If you lutary spirit which that happy mea- should think that document and those observations would be acceptland from the danger and reproach able to the Society of Antiquaries. of using torture in any case. And you will be so good as to present them, in the manner most respectful ment which was passed, in 1708, for to the members, and most agreeable

## OBSERVATIONS ON VITRIFIED FORTIFICATIONS IN GALLOWAY.

BY ROBERT RIDDELL, ESQ. F.A.S.

From the Same.

covered in the Highlands of Scothe called vitrified forts, and having hill of Craig Phadrick, at the hill of Dun-Evan, at Castle Finlay, and at the castle hill of Fin-avon, this publication very much engaged the attention of the curious in research. Along with it was published a description of Craig-Phadrick, by Mr. Wate, engineer at Birmingham, and a letter from Dr. Black, professor of chemistry, to Mr. Williams.

Many fenfible enquirers were much puzzled, whether to confider these appearances as the work of man alone, or as volcanic remains, which a rude ferocious people had taken the advantage of to form a strong and permanent place of refuge from an equally barbarous foe. While many judicious antiquaries remained sceptical upon this curious fubject, the learned Alexander Frazer Tytler, Efq. published in the second volume of the Edinburgh Philosophical Transactions, a most satisfac- could. In consequence of which

HE ingenious Mr. Williams, tory and elaborate paper on some mineral engineer, having dif- extraordinary structures upon the tops of hills in the Highlands, with land some singular remains which remarks on the progress of the arts amongst the ancient inhabitants of described in a Series of Letters those that country. And in this account, at the hill of Knockfarrel, at the he accurately described Craig-Phadrick, which he feems to have furveyed in a very minute manner.

Having now no doubt of the existence of these curious remains. and that the probability was greatly in favour of their being the work of man, without the aid of volcanic craters, I began to make many enquiries, whether any fuch remains existed in Galloway: and I very foon obtained information of two: The Moat of the Mark, in the barony of Barcley, in the parish of Colvend; and Castle Gower, in the adjacent parish of Baittle.

At my request, two different gentlemen went and examined them, from whose reports I found them to be very limilar to those described in the Highlands. I then requested a neighbouring clergyman to go to the one on Colvend, and transmit me the best account of it he possibly

he went, and fent me the following monastic ruins, as well as some account, along with feveral specimens of the vitrified matter.

" Sir,

"With this you will receive some fpecimens of the vitrified fort. It " is impossible, at present, for me "to give you any particular ac-count of it. It is full of rubbish, " and furrounded with standing corn. It would take a man one "day at least to clear it, and this " cannot be done till after harvest. "It resembles in form a child's " cradle, and would be worth the " trouble of clearing out when the " crop is taken off the ground."

A gentleman in the neighbourhood has also sent me some specimens of the coloured vitrified fort, and informed me that the area was of an oblong form, and that in it was discovered a pile or heap of stones, of the form and fize of a goofe egg each (one of which was fent me), and I apprehend they had been gathered upon the shore, which is contiguous, and piled up here for the purpose of flinging or throwing with a balista, at an approaching enemy. I very much wished that journey so far. Capt. Grofe should have seen these fummer; but the difficulty of approaching them in a wheel-carriage prevented it. I could wish much that a ground plan, fection, and perspective view were taken of each. Galloway would amply repay a judicious antiquary who was a draftiman, for the trouble of investigating the antiquities of this, almost as yet undefcript country. Capt. Grofe has given views of many of its to present it to them from me.

of its baronial feats, and he has caused to be engraved that very fingular curiofity in the Glen kenns, called the Laggan stone; which certainly was a druidical rock idol. This huge rock is fituated in the wildest spot almost to be seen; many miles from an house, and the road almost inaccessible. It rests on two points, and the light Thines through it; and though a child may make it move, it would require gunpowder to raife it from its feat. I have heard of many more druidical remains in Galloway, which only want a Borlafe to explore them. Mr. Gordon, the steward depute of Galloway, wrote me concerning a fine cromlech, something like that in Kent, mentioned by Dr. Borlafe. -The fine rides and picturefque fcenery to be met with, along the margin of Loch Kenn (a fresh-water lake, eighteen Scots miles in length) would much gratify any person of taste visiting the lakes in Cumberland and Westmoreland, and would afford full compensation for the additional trouble of continuing their

Kenmore Castle, formerly the forts when he was in Scotland last residence of the Galwegian Reguli, and afterwards of John Baliol, some time king of Scotland, stands at the head of Loch Kenn, commanding a most extensive and romantic profpect: two views of it are engraved in Captain Grofe's Antiquities of

Scotland.

If you think this long letter worthy of the attention of the Society of Antiquaries of London, please

### THOUGHTS ON THE FOUNDERING OF SHIPS.

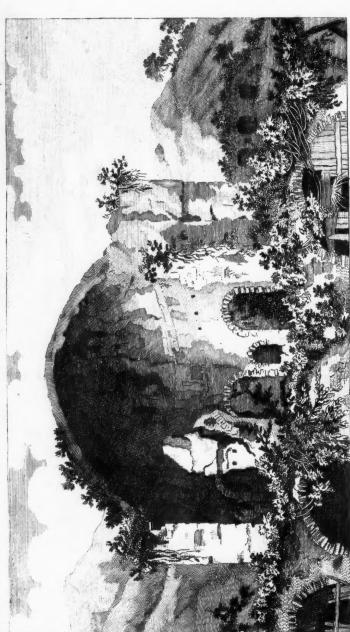
IN reading Dr. Franklin's letters, thoughts of my own to those of Dr. I found he had treated very ingeniously on this subject: but I think public. Let us first consider the he did not give as full directions, as, perhaps, he would have done, had he been particularly treating on that air is lighter than water. Thus that subject alone: therefore, I have if you fill any vessel, such as a cask, thought it not amils to add some full of air, and make it tight, it will

Franklin, and offer them to the principle, on which the ship floats on the water, which is fimply this, ses sy s, she hold. She hold ses ses say n-I call hilly m. of the ter steer the of the hold adheir

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as the difference between the weight of the air contained in faid ship below the furface of the water, and the weight of fo much water, deballast. A captain who perceives his ship at sea spring a leak, in a desperate manner, so as to gain fast on his pumps, should, in the first place, start all his casks full of any liquid, that he can get at in the lower tiers, and as fall as they can empty, or the water increases so that they will empty no more, stop them tight again, and throw overboard felves fink, carefully retaining every thing that will float on the water, for they may at last fave the ship. If the case still seem desperate, empty every cask that can be made tight, and put them in the hold, and contrive to force them under water, and keep them there by props from the deck: this will fill lessen the pressure, and the water will come in and covers more of the empty calks. Every wooden thing that can any way be spared, must be put in the

VENUS

TEMPLE

RUINS of the

float on the top of the water, and hold, and forced under water, by carry with it a weight exactly equal props, not by weights, for this to the difference of the weight of would destroy the effect. Even in air in the cask, and the same cask case of great extremity, out down full of water, deducting for the the masts, and cut them very small, weight of the cask itself. Thus a with every thing above, and force thip will carry just as much weight them into the hold, cabin, and fcuttles, or any where, so that they can be kept under water. The falt provisions, water, &c. that will be neceffary to be kept for use, should ducting the weight of the ship and be first of all brought upon deck, and last of all be put into the hold or any where elfe, so that they will be immerfed in the water, and can be got at for use. I am of the opinion that few thips that put to fea, would fink, after every thing being done as above directed, although half their bottoms were beat out. Let not the mariner despair in such cases, at seeing the water gain very only fuch things as will of them- fast on his pumps-but consider, as the vessel fills, the pressure lessens, and the water comes in flower, and the pumps will discharge it much faster, as it will not be so far to hoist as at the beginning. This is certainly a subject worthy the attention of the wife and great, if we confider how much property and how many lives are lost for want of such knowledge. If these hints should be the flower, as it rifes higher in the hold, means of stirring a more able hand to take up the subject, and to the faving of any, it will reward the writer.

# OF THE RUINS OF THE TEMPLE OF VENUS.

### WITH A VIEW OF THE SAME.

This goddels has been a beautiful ftructure.

HE beautiful remains exhibited worshipped under a variety of ap-I in the annexed plate, are the pellations, but in which of them in ruins of a temple, dedicated to Ve- this temple, we are not able to denus, and fituated between Baiæ and termine. From the remains now Puzzuoli, on the border of the gulph to be feen, it appears to have been

## A DESCRIPTION OF THE WESTERN HEBRIDES.

BY THE REV. JOHN LANE BUCHANAN, A.M.

VOL, XI.

HIS great ridge of illands runs illand distinguished by that name, in a parallel line with the to Nish, the northern point of main land of Scotland, from Barray- Lewis, about 180 miles in extent; head, the fouthernmost point of the and, in breadth, from 5 miles to 20.

Uist are flat and fandy: the eastern, mountainous, and full of mosses and rugged rocks. The inland parts are interspersed with freshwater lakes, and these plentifully stocked with fish. There are several fmall rivers, in the mouths of which there is plenty of falmon, falling for the most part into the western feas.

The leffer islands of Boreray, Berneray, Pabbay, Enfay, and Caillegray, are for the most part, covered with shelly-fand, which, towards throughout the whole of the Hethe shores, is drifted by the winds brides, and other countries, when

lakes, full of fish.

Lewis and Harris, is in length, from north to fouth, about 90 miles. Harris the Southern is divided from Lewis the Northern by a tremendous ridge of very high mountains, abounding with deer, which until the game laws were vigorously such extent, that an active horse or enforced by the proprietor, were sootman will hardly gain the surconfidered as common property. The whole face of Harris is fingularly rugged and forbidding, being small hollow channels of rivulets furrounded and interfected with rocks, marshes, mountains, hills of shelly fand; and lashed and stunned on the west and north with the tremendous roar of the fierce Atlantic Ocean. In this island there are several fresh-water lakes, as well as confiderable rivers, stored with trout and falmon.

The east side of Lewis consists in rocks, mountains, marshes, and lakes, from four miles to ten in length; but from Stornaway by Graish, to the northern extremity, it is, on the whole, though here and with gooseberry and currant bushes, there interspersed with hills, both though surrounded by high garden

The whole of this vast ridge of is either pure moss, or moss interisles, which is fully slocked with mixed with fand and earth, or a inhabitants, is divided into eight mixture of fand and earth without parishes: in which there are, besides any mols. It produces plentiful the parish churches, three stations crops of barley and potatoes, and for clerical missioners supported by in some parts, of oats and rye.—
the royal bounty.

This part of Lewis is passable for The western sides of Barray and foot as well as horsemen. But in most places the least vestige of a tract or path is not to be discerned: The inland fo that, what little intercourse takes place in this rugged island, is carried on by means of boats, on the rivers, lakes, and moraffes when covered by water. Near the coaft of Lewis and Harris lie the two Berneras, composed of moss and fand, and feveral fmaller islands of the same kind of soil, as Pabbay. fcarpe, Taransay, Haisgear, &c, all of them fertile, especially, as into great hills. Even in these manured with sea vegetables or small isles, there are fresh-water weeds,

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The whole west side of Uist, be-The Long Island, comprehending ing plain and fandy, is extremely pleafant to ride through; but attended with danger to strangers and fuch as are overtaken by liquor; on account of fords over which the lea flows from east to west so rapidly, and which are at the same time of ther fide, before the tide has filled up fome one or other of the many

he has to cross.

Benbecula, or Nun-toun, the feat of Clanronald, becomes an island, twice in 24 hours: and those immense fords resemble large seas over which confiderable vessels, at certain feafons, may fail with fafety. The whole of this country is unfavourable to wood of almost all kinds, which creeps along the earth: as the juniper, thorns, and all kinds of natural brush-wood, mountainash, wild vines, hysop, nay, even apple and pear, and plumb trees, beautiful and fertile. Here the foil walls, must keep their heads below;

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and fruits feldom arrive at perfecand fecured from florms.

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All kinds of greens or garden roots, used over Britain, are planted in gentlemen's gardens, and fome of them with fuccels. In Uist there is a kind of natural kail, or colewort, called morran, that grows by the fea-fide: with long grafs called bent, used in making facks, ropes, and other implements of hufbandry. There is also another root called rue, that the common people once used for dying woollen yarn red; but strictly prohibited of late, for fear of making a passage for the wind to blow away the fand, and disfigure the face of the fields. A nourishing root is commonly dug up by the poor, in time of scarcity, out of the arable lands, called brifgean, or wild sherrat, and when boiled, answers the purpose of bread or potatoes: they are also prohibited from this as much as possible. Digging or opening the lands for these roots exposes the field to be blown away by the drift. Here are carmile roots, wild carrots, baldmony, hemlock, heath, rufhes, strawberries, blackberries, cranberries, juniperberries, and feveral other wild fruits.

But no broom, whins, or thorns, There are plenty will thrive here. of peats and turf for fire over all the ifles.

fowls over all this country are too country people. many to be mentioned.

A species of robbery, equally tion, though tenderly cultivated fingular and cruel, was lately practised in this country very monly, and fometimes at this day, in which the eagles are the principal The thieves, coming upon actors. the caglets in their nefts, in the absence of their dams, sow up the extremity of the great gut: fo that the poor creatures, tortured by obstructions, express their sense of pain in frequent and loud fcreams. The eagle, imagining their cries to proceed from hunger, is unwearied in the work of bringing in fresh prey, to fatisfy, as the thinks, their craving appetites. But all that spoil is carried home by the thieves at night, when they come to give a momentary relief to the eaglet, for the purpole of prolonging, for their own base ends, their miserable existence. This infernal practice is now wearing fast away, being strictly watched by the gentlemen, and feverely punished. Mr. Mackenzie, for every eagle killed in Lewis, gives half, a crown. One of those large eagles was taken in the Isle of Herries, at Tarbart, together with a large turbot, in which the animal had fastened its talons, when afleep, at the furface of the water, fo as not to be able to difengage them. The eagle, with his large wings expanded like fails, drove before the wind, into the harbour, where he was taken alive; his feet The species of land and sea being entangled in the turbot by the

### TYPOGRAPHICAL DESCRIPTIONS OF TOWNS NEAR THE SEAT OF WAR.

a down or fandy hill, in French Dunquerque, a town of French Flanders, on the Colne, which here falls into the English channel. It is the most easternly harbour on that fide the French dominions, next Great Britain, and is a bailiwic, subject to the provincial

UNKIRK, i. e. a church on buildings are, the town-house, in which is a public library; the exchange, opposite the town-house; the barracks, the armoury, the ropewalk, the magazine for naval stores, the park of artillery, and the royal holpitals; befides which are the church of St. Eloy, with fifteen chapels round it; the church and souncil of Artois. The principal college lately belonging to the Je-C 2

fuits, four convents, and five nun- low water, but it shoals more to the neries. It was taken from the Spa- shore. In the road you may anchor niards by the French in 1558, but to the E. of Dunkirk, almost close they re-took it soon after. Its in- to the jetties, in nine or ten fa-

from 1591 to 1636.

by the French; and in the latter year it was ceded to the English, in confideration of their fervices in assisting them against Spain. But in 1662, king Charles II. sold it to the French for 218,750l. upon which Mardyke, and the other neighbouring villages erected by the English, came into the possession of Lewis XIV. who, upon this, very confortifications, adding fluices, canals, low on that fide, they can lay the and dams to the harbour, which before was in very good condition: of fluices. Its ditches are large and fo that in succeeding wars it became a station for privateers and small cut into a rock. Clodion became frigates, which did confiderable damage to the English, who, for that Danes burnt it afterwards; fince reason, at the treaty of Utrecht, in 1713, infifted on the demolition of the harbour and its fortifications; and afterwards at the Hague, in 1717, and at Aix-la-Chapelle, in 1748. It has now about 12,000 inhabitants; but before the destruction of its fortifications it had upwards of 26.000. In 1690, it was attacked by the Dutch and English forces, but without faccels. The in 1593, which broke his heart. It road is one of the best and securest continued under the dominion of in Europe; but the harbour will the house of Austria till 1677, when not admit a ship of war of the first the king of France became master rate. The road lies at the distance of it. of two miles and a half from the town, about three from the new tolerably handsome, and the streets harbour of Mardyke, and is shel- fine and spacious. The place or tered by the Braeck, a fand-bank, square for arms is of an extraordiextending parallel to the shore, two nary largeness, and capable of releagues E. and W. Upon this bank ceiving the whole garrison in order the sea is not above four feet deep of battle. The cathedral, dedicated at low water, and therefore ships to the Virgin Mary, is one of the cannot get over it, but at the time finest in Europe. There are nine of the flood: but there are two parishes, four abbies, and several channels, one at each end of the convents for both fexes. The citaroad. Behind the Braeck, to the del is very advantageoufly fituated eastward of Dunkirk, you may an- on high ground, and commands the chor, sheltered from a N. W. N. whole city. Cambray is one of the and N. E. wind, in two fathoms at most opulent and commercial cities

habitants greatly annoyed the Dutch thoms, very good holding ground, om 1591 to 1636.

Deing clay mixed with fand; and In 1646 and 1658 it was taken to the W. in fix, feven, or eight fathoms water. It lies 15 miles from Nicuport, 11 from Gravelines, and 22 E. of Calais, 55 of Dover, and 26 S. W. of Oftend. Lat. 51, 7, Lat. 51, 7,

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N. Long. 2, 20, E.

CAMBRAY, an archiepiscopal city, the capital of the Cambrelis, in the Low Countries, feated on the Scheldt. It is defended by good fortifications, and has a fort on the fiderably improved and enlarged its fide of the river; and as the land is adjacent parts under water, by means deep, and those of the citadel are mafter of Cambray in 445. The which time it became a free imperial city. It has been the subject of contest betwixt the emperors, the kings of France, and the earls of Flanders. The emperor Charles V. took possession of it in 1543. After this it was given to John of Montluc, by Henry III. of France, whom he created prince of Cambray: but the Spaniards took it from Montluc

The buildings of Cambray are

tants drive a great trade. E. long. 3, 20. N. lat. 50, 11.

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ARRAS, by Ptolemy called Origiacum, and by Cæfar Atribatum, the principal city then of the Atrabatæ. It is situated on the river Scarpe. This ancient and large Scarpe. city is divided into the old and new. The latter is called the town; and both it and the old city are furrounded with ancient walls, where are still several round towers in the In 1477, Lewis antique manner. XI. of France took it, and in 1493, the emperor Maximilian recovered it. Afterwards, in 1640, the French marshals, Caune, Chatillon, and Milleray, laid fiege to and carried this place, after defeating the cardinal Infanta, who came to its re-The Spaniards fat before it in 1654, but were beat off with considerable loss. Before Arras came into the hands of the French, over one of the gates of the city was this inscription, Quand les François prenderont Arras, los fouris mangeront les chats, i.e. When the French shall take Arras, the mice shall eat the cats. But when the French took it, a man of wit faid, the inscription might stand, if, by erazing one letter, prenderont were changed to renderont, which fignifies, shall re-

Arras has fince been very grongly and regularly fortified by the celebrated engineer M. Vauban, in which he has shewn some works of his own invention. It has walls, ditches, and a little valley, through which runs the finall river Crinchon; and these divide it into two lat. 50, 20, N. Long. 2, 5, E.

in the Low Countries, and makes parts, as has been already mentioned. every year a great number of pieces It is a confiderable place, and has of cambric, with which the inhabi- also a citadel, which, though not very large, is reckoned one of the strongest in the kingdom, being an oblong pentagon, which marshal de Vauban repaired. It is fomething higher towards the country, where the ditch is dry, than towards the town. And the greatest part of the ground about Arras is fo low, that it may be laid under water.

The bishop of Arras was suffragan to the archbishop of Cambray, and he was both spiritual and temporal lord of the city: he had a diocefe of 400 parishes, an annual revenue of 22,000 livres, and he was taxed 4000 floring to the court of Rome. He was also president in the assembly of the provincial states, which was holden here; to which laid an appeal from all inferior courts. Am appeal also laid from it to the parliament of Paris. The cathedral, dedicated to the Virgin Mary, is a fine structure, and in it they keep fome famous reliques. The abbey of St. Valt has a very fine church belonging to it. Belides, here are eleven parish-churches, a seminary, a Jesuits college, and several convents. This town has fair and broad streets, and is inhabited by wealthy traders and artificers. They have manufactories of fail-cloth and tapestry - hangings, especially the latter, which, from that art being first invented in this city, take their name from it. Though they are indeed beautiful, they fall short of those made at Paris, Brussels, or Antwerp. Here the bailiwic or district and forest courts are kept. It lies 12 miles S. W. of Douay, in

## PHYSICAL CONSTITUTION OF THE ATHENIANS.

BY MR. DE PAUW.

A many observations, the inter- stitution of its inhabitants. nal state of Attica, and the nature

AVING made known, by fo your to analyze the frame and con-

The Athenians, fays Ifocrates, of its climate, we shall now endea- are not to be distinguished from the Other

fize or any superior force of body: miles distant. Thus the poets and but no nation in that part of the world, ever produced men of fuch extraordinary beauty. Plato could not speak without enthusiasin of Demes and Charmis; and when Pyrilampus, fays he, was fent as ambassador of the republic to the east, neither the court of the Persian emperors, nor all the ancient continent could produce a mortal fo perfect.

Socrates among his disciples had three Athenians, Xenophon, Critias and Alcibiades, who eclipfed the most beautiful of their age in Greece. Xenophon in particular, having the bloom of youth, possessed a form fo feducing, that according to Diogenes Laertius, it could not be described by words. Some others have likewife been cited by Æschines at a later period than the Peloponnefian war, who fo far from appearing to have degenerated, were perhaps superior to their ancestors, and furpassed beyond contradiction every thing among the Greeks. That class of Athenians, elevated by birth and fortune, could alone boaft of producing these extraordinary men: for those, who were employed from their infancy in the fleets of the republic, contracted a depression immediately below the vertebral column, where the greatest effort is ever did not know that the conmade in the attitude of rowing; and tinual tension of the optic nerves, they could eatily be diffinguished in discovering game at great disfrom the other inhabitants. The tances, contracted the form of the mythologists of Greece imagined, that this deformity had been transmitted by Thefeus to the Athenians; but their stone of forrow was in reality nothing more than the benches of the galleys.

Nature had endowed the Athes nians with a fubtility in their optical organs beyond what ours have ever attained. From the promontory of Sunium, favs Paulanius, they difcern the plumes of the helmet, and the very point of the fpear, which belongs to the coloffial statue mediocrity, because it was impossible

other Greeks by an advantageous although in a strait line near thirth mythologists have less exaggerated than was supposed, when they asferred that the veffel of Thefeus, when returning from Crete, had been seen at such a distance difplaying black fails and mourning, instead of the slag of victory.

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The Athenians could diftinguish the principal parts of the temple of Jupiter in the island of Ægina; and the Æginians those of the temple of Minerva, which Pericles had constructed in the center of The distance between Athens. these objects was about eighteen miles; and the latter from its white marble, assumed the appearance of a luminous body, when at noon it reflected the rays of the fun, towards the west. Greece seems to have been created expressly for the advantage of architecture, because in no part of the world could edifices be placed in fo strong a light, or in fuch picturesque situations.

Xenophon believed that the continual exercise of hunting in some cantons occasioned the utmost extent to the view of which it was fusceptible. This opinion has fince been verified by fo many observations on different people, occupied in fimilar pursuits, that it no longer appears doubtful. Xenophon howcrystal, and rendered the hunters incapable of discerning objects immediately around them.

Whatever may have been the cause, it is certain that the Greeks in general possessed the faculty of fight in greater perfection than any other of the fenfes; and to this may be attributed their aftonishing progress in all arts depending in any way on the accuracy of defign. The Egyptians, on the contrary, who had weak eyes, could never attain of Minerva, in the citadel of Athens; for them to feize exactly, the con-

rior construction of these organs characteristic, distinguishing the Greeks from other nations. lnnone of the different races of men scattered on the earth from the country of the Esquimaux to the Terra del fuego, and from the coast of Africa to the islands of the South Sea, does the globe of the eye appear fo large, and its orbit fo exis not extraordinary, fays Winkelman, that ever fince Homer's time, an idea of the most sublime beauty nature; for a great light, continues unforefeen. the same author, is certainly predemonstrate evidently that the tastes As the women in these latter countries contrive to render the eye apparently fmaller, by contracting the diaphragm of the eye-lid, some have suspected that an artifice existed among the Greeks for producing a But it requires contrary effect. only a fuperficial knowledge of anatomy to conceive, that fuch an operation would have affected the adjoining parts, and chiefly the lachrymal glands, in fuch a manner as to produce an irremediable deformity.

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It is a circumstance equally remarkable and furprifing, that, while the territory of Athens abounded with men, whose corporeal faculties discovered the highest degree of perfection, no age or fituation ever produced women there who were

celebrated for beauty. Negligence in drefs, unsupported by any natural graces, would have

tour of animated bodies. They per- to unite the fexes. With a view of severed without advancing in the correcting abuses of that nature. least towards perfection, and the a fingular magistracy was established elegant forms flipped, as it were, at Athens, to superintend the dress from under their pencil. The supe- of the women, and constrain them to appear decently. The rigor of may be considered as a national this tribunal was extreme: it imposed the fine of a thousand drachmæ on those who neglected to adorn their hair, or discovered carelessness in their clothing; and the names of fuch persons were afterwards exposed on tables to Thus the infamy atpublic view. tending the transgression, exceeded even the enormity of the penalty; tensive, as among the Greeks. It for women, whose names had appeared in this catalogue, were loft for ever in the opinion of the Greeks.

This leverity, instead of being has been affixed to this favour of useful, produced an evil entirely To avoid fuch difgraceful cenfure, every species of ferable to a feeble ray. But the ruinous luxury was introduced; and Chinese and Japannese by establish- the women, adopting the most exing maxims totally opposite to this, travagant modes, carried particularly the use of paints to an excels and pleasures of mankind are never hitherto unexampled among cividetermined by forced fimilitudes. lized nations. It became, in fact, a perfect dilguile, and confounded in public places, the most profligate courtezan with the respectable matron, as Xenophon has exemplified in his Economica.

The eye-brows and lashes were blackened by different procedures, and the cheeks and lips coloured with the juice of a plant, called lythospermum tinctorum by botanists, which communicates a carnation paler than carmine. On all occalions of ceremony, a coat of white lead, covered every face and breaft without distinction, unless in time of mourning, and rules of exemption even then were not always respected, as appears by the pleadings of Lyfias.

Never did a more marked difference exist among all the varieties of the human species, than between the women of Attica and those of Circassia. The pure complexions, weakened, if not totally destroyed of the latter owed nothing to art; those charms which were necessary and in the market of Cassa in Cri-

mea, they had to undergo many trials in the presence of purchasers, to prove that their charms proceeded alone from the bounty of nature.

The learned have always imagined, that the women of Attica had no other view in the cruel mode they had adopted of squeezing up their bodies than that of rectifying the shape. But on considering the practices of those Greek merchants, called Andrapodocapeloi, we are led to suppose some more particular object. It was observed, that all female flaves, destined by them for the rich and voluptuous, had their juices. Dioscorides assures us, that hips compressed with knots of cord

and bandages. Several naturalists are of opinion, that, in the fouthern parts of Greece, the islands of the Archipelago and Afia Minor, the women are subject to uncommon effusions. Indeed the greatest anatomist of our age has discovered, that this singularity affected even the very configuration of the bones, as appeared by a while the men issued from the hands skeleton he had received from the of nature endowed with all the Levant. Many individuals of thefe graces, such as Autolycus has been countries would have escaped ex- represented by Xenophon. Plato cruciating pains in child-bearing, describes Charmis like a star in the had not the confluction of their firmament, furrounded constantly robes augmented the danger of by a crowd of admirers; while the bringing forth, as well as that of name of Demus, the fon of Pyribeing born. Yet all fuch attempts lampus, was interibed on the porti-must have availed nothing, for cos of the town, and the facades of when a certain peculiarity, pro-the houses, to transmit to posterity ceeding from the nature of climate, the same of such an accomplished affects the human frame, we may be mortal.

affured that its influence is unchangeable. Galen fays, that in his time it was necessary to circumcise the women of Egypt'; and the fame necessity still exists there; neither are tumors in the neck become lefs frequent among the inhabitants of the Alps, in the course of twenty centuries.

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The virgins of Athens could never have supported the torments inflicted on them, under pretence of correcting their organization, had not care been taken to diminish the necessary effects of the nutritive not only the fad precaution of frequent fastings, but likewise astringent and ferruginous powders were employed, to prevent the bosom from growing too large, in confequence of the excessive com. pression of the waist.

These details are sufficient to prove, that all was artifice and constraint with the women of Athens,

## LETTERS ON PLANTING AND THE MANAGEMENT OF WOODS.

From THOMAS SOUTH, Fig. to the Secretary of the Bath and West of England Society.

#### LETTER III. ABELE.

by a former correspondent, I have not only blew down my elms, but little to add, fave that not being fub- my barns likewife, I rebuilt one of ject to the ravages of the worm, it is five bays, and twenty four feet long applicable to more nieful purposes in the beams, and roofed it entirely

HE rapid growth of this timber than that gentleman has affigned to having been already afcertained it. \* After the storm in 1781, which

<sup>\*</sup> I think Abele must be too foungy for the turner.

with this timber; and from the experience of others, together with the present appearance of beams, rafters, &c. have reason to think that my grand-children will not find fault with it. In an out-house roofed at the same time with elm, there are manifest signs of the worm already, which will in the end destroy it. But let it not be understood, that I recommend the use of abele under any covering but thatch, which if not fuffered to gully into holes, will always protect it from wet, on which alone the durability of the timber depends; the drippings from a broken tile, flate, &c. cause it soon to perish.

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These trees are often subject to warty excrescences, which, when large, imbibe moisture, and bring on decay. Whilst the plants are young, they do little injury, yet it is adviseable to root up fuch as are much disfigured with them, to give room to those which are healthy. I have fome of the true abele or populus alba, which are now forty feet long in the shaft, and six feet four inches in circumference at five feet from the ground; their exact age I do not know, but their contents exceed two tons of timber each, and I judge them to be fifty years old.

The species your correspondent mentions, (as received under the denomination of the Dutch beech) furpasses them in quickness of growth. But I much suspect that his trees are very branchy.

ALDER. - As patten-makers timber merits little regard, but being the most beautiful of the whole aquatic tribe, is extremely ornamental along the banks of ferpentine rivulets, or planted as fingle trees in fpringy gravels, or peaty bogs, where little elfe will grow. Placed in a border round abeles, the latter run above them, and form a pleasing contrast.

From the authority of great mafters in their way, Miller, Mortimer, &c. I was induced to plant a waggon-load of truncheons, in the year 1764, in lituations above described. I was flattered the next fummer with every prospect of success, their shoots being strong and gross; but lo! the year following, one and all perified, not having flruck a fingle root. Being fatisfied that this could not be owing to a defect in the foil, I replanted the same in 1766, with small-rooted flips taken from old flubs, few of which failed; most of them have been cut twice for brush wood, poles, &c. and of those planted fingle, one has formed a conical top of great beauty, and its bole is three feet feven inches in circumference, midway between the branches and the ground.

Mr. Miller recommends this timber as excellent in water works, but I can fay nothing of its merits myfelf, having never tried it. When charred, it makes the best coal for gunpowder.

AsH .- The growth of ash in foils adapted to its nature, is little inferior to that of elm or beech.\* But there is no timber whatfoever that differs more in its value than this does, according to its fituation. The productions of dry and healthy ground (unimpaired by the farmer's billhook) will prove acceptable to most Those of woods are purchasers. generally clean in the shaft, freecleft, and more valuable than the former. The nearer the ground, the tougher is the timber, the shaft therefore is coveted, the brittle branch rejected.+

If these trees are removed when ten or twelve 'eet high, their grain acquires a degree of tenacity very prejudicial to the timber. My predeceffor, about the year 1750. planted a row of them in a place fince converted into a garden. Their shafts were apparently

Vide p. 445, Society's Mem. vol. 5.
 The buyers of this timber accept the thaft and its continuation, or best bough; the reft, be they ever fo large, go with the top.

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Dd

apparently fo clean, as to engage a cooper's notice, who purchased them at a good price, viz. 36s. per ton, but told me afterwards, they were clung, and did not answer his purpofe.\* fo he refold them to a country carpenter at a loss. One of thele trees, which was left standing, measures 'now four feet eight inches in circumference at four feet from the ground.

Ash timber, when raised in damp meadows, or moorish soils, becomes light, spongy, brittle, and of small value, in comparison of that on dry and healthy spots. In meadows, they will attain a fize + which cannot be expected in moors and bogs; for when the roots reach the peat, the bark grows molly, and the top decays; how long stubs may be productive of poles, in fuch fituations, remains to be determined, but experience convinces me, that ash, thus planted, will never become timber of any value, as the roots must perish before the tree arrives to perfection.

Ash trees in dairy plots are nuifances, as their leaves make the butter rancid and worthless; mixed with beeches in an open grove, they run to great lengths, are free-cleft, and make valuable timber. Coachmakers, wheelwrights, &c. like the shafts when a little bent, more than when perfectly fraight. The cooper has no objection to the latter.

Beecu. The propagation of beech is strongly to be recommended as a free grower, and applicable to many uleful purpoles. It faves oak

(as before mentioned) in planking ships bottoms, and in ringing mill. wheels; its close grain and firm texture render it unparalleled in waterworks of all kinds, for when conflantly kept wet, it appears as perfeetly found at forty years end, ± as when first immersed. The mortices and tenents chafed by the influx and eflux of water will in time be the one enlarged, and the other diminished, but the wear in this timber is nothing like fo great as that in elm; wherefore head-cells in millraces, wiers, &c. should be of beech, in preference to any timber whatfo. ever; and, as the very offal is the most valuable cleft-wood, yielding a guinea a cord to the malsler, there are few trees more profitable to the planter in countries where there is a demand for it. The beech is the chief ornament of the Cheltern hills in Buckinghamshire, and of the Horse-shoe hills in this county. It delights in chalky foils and lofty fituations; it is more profitable in open groves or mingled with ash, than in coppices of underwood; it runs up in the former with a long clean shaft, it branches in the latter to the destruction of all around it. § Yet both length of shaft and branchy crooks have in this timber their respective values for the purposes above-noticed, which makes me wonder, that the timber bears no greater price than from 6d. to 8d. a foot, whilst elm fetches iod. and a shilling. | I have many beeches of large fize, and great beauty; one

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\* i. e. They would not cleave into hoops. Clung-a provincial term, fignifying that the grain adheres too closely to separate freely.

t Of this I have had frequent proof, having known the fame beechen cell, when turned, and fresh morticed, last two wiers, and found enough afterwards to make the

<sup>+</sup> An ash in my mill mead, which in 1760 contained 34 feet of timber, being apparently at a stand, was felled last spring, and then measured 60 feet, viz. an increase of 26 feet in thirty years. It was a fine butt to look at, but was estimated at no more than 25s, per ton. N. B. The top had been decaying, and the growth stagnated for five or fix years paft.

plating of an outhouse.

§ N. B. Nothing but holly will grow under the drip of beech (truffles only excepted). Notwithstanding the body of the beech, however clean, fetches a price inferior to fraight elm, yet the limbs and offal are worth more than those of elm, and there is a difference of measure which brings them nearly to a par in price, for the buyer claims an allowance of an inch in a foot girt, on account of the roughness and thickness of the

two inches and a half in circumference, at five feet from the ground,\* and at Midfummer last, was eight feet, seven inches and a half, viz. it increased twenty-nine inches in twenty-one years, being above one inch and one third yearly. thaft of this tree is about forty feet long, as straight as an arrow, it breaks all around into small branches, and contains between two and three tons of timber.

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In the year 1768, I planted some hundreds of young trees in fingle and double rows along the fide of chalky hills. These are now thirty feet high, and in circumference from comes dead topped, and worthlefs. eighteen to twenty inches at four feet from the ground; they were originally drawn from the woods from three to four feet high, and a general failure being prognosticated by unsuccessful beech-planters, I placed them thicker than I would have done, and planted them alterfoil, is as much as could be expected; vent a profitable progrefs.

that has been measured repeatedly have spread; but my design being was, at Midsummer 1769, fix feet to draw them into long shafts, they were frequently trimmed for that purpole, and promise to make fine trees hereafter.

> N. B. Beeches may be trained to long straight shafts, after the manner of elms, with this difference only that a spray must be left near the end of every shortened branch to keep it alive, otherwise it perishes. and becomes a faulty knot.

> Beeches are the worst neighbours oaks can have, they grow fo much faster, and extend their roots so far as to weaken, if not starve them. When the former overhangs the latter, that affuredly dwindles, be-

FIR.—Though I do not think the Scotch fir in this country can ever equal the yellow deal from the Baltic, yet it may be worth propagating, as of useful purpose in ordinary buildings. The drier the ground on which this timber grows, the flower is its progrefs, but the closer nately, the best at full length, and are its pores, and the more superior the worst cut down to the lowest its quality. + When planted in rich eye, which was left even with the land, these trees will shoot three or furface of the ground; there were four feet in a feafon, and equal, if not one in an hundred of the former not furpals, the abele in growth. which lived, nor one in a hundred My plantations, though chiefly conof the latter which failed. An up- fined to chalky banks, in a northright growth of thirty feet, in two west exposure, evince, that when and twenty years, in a poor shallow once rooted, few obstacles will prethey would have increased faster in observing the mistakes of others in bulk, if they had been permitted to endeavouring to ornament their

bark in the latter, but claims no deduction for the smooth bark of the former; another confideration for the planter is, that elm requires a foil worth 20s. per acre, whilft the beech will grow in white land, fearce worth 7s. per acre.

\* That is, five feet on the lower fide, or four feet on the upper. Query, What will be the contents of this tree at 24 years end, after the fame rate of growth?—A thaft ta-pering regularly from a circumference of 8 feet 8 inches at its base, to 4 feet at its fummit, will girt 19 inches in the middle; for the girt at top 12 inches, added to the girt at bottom 26 inches, are equal to 38, which divided by 2, are equal to 19 inches the girt midway; and 40 feet by 19 girt, are equal to 100 feet of timber, its prefent fupposed content. Then at 24 years end, allowing an inch only in a year for the extension of the shaft in length, it will have gained two feet additional length, and 24 times one inch 3, are equal to 32 inches, equal to 8 inches girt, added to its present measure 19 inches, are equal to 27 inches; then 42 feet by 27 inches, are equal to 212 feet, 7 inches; fo that in 24 years it will gain 112 feet, viz. it will more than double its prefent contents, which it has been 60 years at least in attaining. - May this prove an incitement to those who have thriving trees, to preserve them, till they have apparently done growing.

+ I should imagine, that the firs planted by Mr. Allen, near Claverton Down, will prove very fine timber hereafter.

naked downs too fuddenly, I learnt at the fame time, in a deeper foil. the necessity of planting firs, when a foot high only, and by opening the ground fome time before, inverting the turf at the bottom of the holes, and throwing the mould upon it in hillocks, to meliorate, my plantation fucceeded well; for though the foil is fearcely fix inches deep, the firs, let in 1766, are now thirty feet high. and from two feet fix inches to two feet in circumference, at four feet from the ground; fome few planted

and warmer fituation, are now above three feet round.

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Spruce firs planted in 1766, like. wife in a tolerable good foil, are now forty feet high, and from two feet ten inches and a half to three feet round.

I have feen plantations which far furpass either of these in growth, but they occupied ground infinitely more valuable.

### ACCOUNT OF A PLAGUE WHICH RAVAGED THE ISLAND OF CYPRUS, &c.

BY THE ABBE MARITI.

a fhort and agreeable voyage. My pleafure, however, was not of long duration; for on the 3d of February, the day of my arrival at the island, I learned that this country was infested with the plague; and the towns of Salines and Larnic, still free from this terrible fcourge, beheld it, not without terror, exercifing its rafome new victim fell a facrifice every day to its fury. The picture of the whole island a prey to inevitable destruction, was continually before their eyes; and the evil had already extended itself to the maritime re-

N the month of January 1760, I alarmed: but as I was obliged to go fet out from Leghorn, in order to on shore, an European advised me go to Cyprus, which I reached after to be upon my guard, to approach no person, and to touch nothing fuspicious. He affured me also that the town of Salines, and the city of Larnic, had not yet experienced any fymptoms of the difease; but that their correspondence with the capital would render it impossible for them to avoid it.

As foon as I landed, I paid a vifit vages in the city of Nicofia, where to the conful, which is a duty imposed by custom on all strangers who arrive here. In my way, I carefully avoided every person whom I met; and they, in their turn, feemed to be actuated by the like fear, and to employ the same pregions, which, on account of their cautions as myfelf. It was really a greater population, tended more to diffreshing spectacle, to see the muincrease the progress of this disast tual horror inspired by people who trous distemper. The consuls, mer- a little before were united in the chants, and Europeans in general, firiflest bonds of friendship. The were therefore extremely cautious conful received me in a very grain holding any intercourse with cious manner; and I had the hothem. Several fequestered them nour of being invited to dine with felves entirely from all society: him. When I waited upon the others were preparing to that them- French conful, attended by fome felves up in their houses, and to people in whom I could confide, he condemn themselves to voluntary conversed with me from within his imprisonment, until it should please palace, and next day I partook of a Providence to deliver the kingdom, repast with him. These were the On the approach of a danger which only persons whom I could see: the I had hitherto confidered as at a dif- other confuls, and the greater part tance, I was, I must own, not a little of the merchants, shut up in their houles

houses as in citadels, would not have scourge, so rapid in its progress, and frewn themselves for the whole so terrible in its consequences, when world.

leave of the English conful: but this gentleman, to whom I had hiproper to redouble his precaution; for he had just heard that three of the inhabitants of the town were attacked by the plauge. As for me, I went and passed the night on board the veffel in which I had

taken a passage hither.

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Next morning, having business with the French conful, I returned to the town, where the danger was now increased. Of the three in-The conthird was exceedingly ill. tagion, besides, had made a very rapid progrefs; and feveral others found themselves attacked by violent fymptoms. On going to the house of the English consul, I was refused admittance; but I spoke to him through those posts with which the confuls, on fuch melancholy occafions, are accustomed to barricade their palaces. The French conful, who was less timorous, gave me an He informed me that audience. this scourge had begun to declare itfelf two months before on the coasts of Syria, and in the interior parts of the country; but that the long lanfe of time fince the last plague had leffened the vigilance of the inhabitants, whose fatal security had converted a particular misfortune into a general calamity. It may readily be conceived how much I was afflicted by this intelligence, as I intended to vifit almost every port in the Levant. I however refolved to re-embark with the first fair wind, and to quit this folitary island; entertaining a hope, though perhaps in vain, that I should be more fortunate in Syria. The fame evening, therefore, I took leave of the English consul, and did not again return to Larnic.

The island of Cyprus had for

the unhappy remains of a Turkish The same evening I went to take vessel, driven on shore near Paphos. diffurbed its happy tranquillity. The city of Nicolia, where the untherto enjoyed free accels, thought fortunate failors found an afylum after their shipwreck, was the first victim of its imprudent generofity. The destructive disorder, diffusing its baleful influence every where around, foon overspread the greater part of the island, and did not lose its fatal activity till it had ravaged the country for fix months, and fwept off above twenty thouland inhabitants.

On the 8th of February I quitted fected people two had died, and the the harbour of Salines, and next morning anchored in that of Caipha on the coast of Syria. I wished to have proceeded to the city of Acre, which is eight miles diltant from Caipha towards the north: but the harbour at that feafon is not tenable.

> My first care on my arrival being to learn whether the plague prevailed in that country, I was informed, not without a confiderable degree of alarm, that this scourge in its greatest activity, added to several fhocks of an earthquake, had occafioned great defolation not only in the town and territories of Acre, but in the whole extent of Syria, as far as Antioch; and that this city had feen those buildings thrown down which had refifted the violent earthquake that had happened in the year 115 of the christian æra, under the empire of Trajan.

I remained on board till the 22d of February, hoping that time would bring some alleviation of these evils: but matters, instead of becoming better, grew every day worfe. Tired at length of waiting in anxious fulpenfe, I caused the bark to put to fea, in order to go to Acre, where I fhut myfelf up in an apartment in the French quarter. Here the inhabitants converfed with me only at a distance. I might indeed have been permitted to mix with them by thirty years been free from this submitting to a proof of twenty days;

I was not altogether alone. I was accompanied in my retreat by three benevolent genius to purfue the fame people belonging to my vessel, who . fhared with me in all my petty domestic embarrassments. Each in fuccession took upon himself some family operation; and the pleafan-tries occasioned by entering into these minutiæ, so new to us, made us sometimes forget our fears. Our communication with our neighbours was confined to receiving provisions, and other things of the same kind, which had not been infected by the

contagion. The first day appeared exceedingly difinal and melancholy. The tediousnels of so close a confinement; the tears and lamentations of those who were interring in heaps the unhappy victims of the malady; the fear of another earthquake; the still greater terror of bearing in one's bosom the destructive germ which had expanded with fo much fury in the rest of the city; and the cries of despair which were succeeded by the filence of the dead-all prefling into the troubled imagination, would have daunted the minds of the most intrepid. It was during this time of mourning that custom appeared to me to be the true gift of heaven: it renders us in some measure insensible to pleafure, it is true; but it blunts our feelings, and renders us less sufceptible of pain. My agitation, however, was at length calmed; and the fame spectacle continually recurring, fuffered me to recover the use of my reflection, and sufficient power of mind to make observations. I therefore studied the origin, progress, suspension, and final decline of this terrible feourge, by keeping a daily journal of its ravages, as well as of the care and precaution employed by those who sequestering themselves thought they should be am. above all, well acquainted; for,

but I preferred my folitude, though low it with my eyes. As my remarks may induce fome happy and fubject, and to make fuch discove. ries as will prove highly beneficial to mankind, I shall here give the

fubitance of them.

As Syria had for thirty years enjoyed the greatest falubrity, the inhabitants had loft every idea of this scourge, which had formerly been fo destructive to their country. And epizootic diforder, however, which broke out among the cattle, and particularly among the sheep, in 1748, made them at length entertain fome apprehensions for themselves. The year following they were still further alarmed by several shocks of an earthquake, and the whole coast was covered with ruins. These ravages they confidered as fo many forerunners of the plague, especially as that which happened in 1730 had been announced by the like difafters. Their conjectures were indeed foon realized: in the month of December, 1759, a fever, which was characterifed under the name of malignant, broke out in the island. But this error was not of long continuance; for the plague declared itfelf in 1700, and in a few days infected the whole city of Acre. The plague does not refide in Syria, nor is that the place where it generally begins. It receives this fatal prefent from Egypt; and its usual feat is Alexandria, Cairo, or the envi-rons of Damietta. The plague of which I now fpeak came, at the fame time, from Cairo and Alexandria; to the latter of which it had been brought from Constantinople. This scourge, when it comes from that metropolis, as well as from the cities of Smyrna and Salonica, acquires a peculiar malignity; and its activity never expands itself with more fury than in the plains of Egypt, which able to escape its fury. With the it overspreads with incredible ramethod practised by the French I pidity. Travellers, and ships which transport goods from one place to besides other opportunities, I had another, are its usual vehicles. It the advantage of being able to fol- is observed that this plague, so de-

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aga the hay structive to Egypt, seldom attacks Syria; but that the latter in its turn has every thing to dread from the influence of a plague hatched in the bosom of Egypt.

Every European, on the flightest appearance of this fcourge, after making fuch preparations, and taking fuch precautions as are usual on the like occasions, shuts himself closely

up with his whole family.

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The Mahometans alone, more intrepid, go abroad as usual; keep up the fame intercourse with one another; give each other fuch affiftance as may be necessary; and often fly to the relief of a Christian, when deferted by his friends. This intrepidity arises from the belief which they have, that the decrees of Providence are unalterable, and that the execution of them cannot be fufpended by the vain precautions of men.

The Mahometans of Syria, less familiarized with this scourge, make use however of some precaution, which upon this occasion they augmented. They published an ordonnance, forbidding every vessel attacked by the plague to enter their ports: but their vigilance in this respect was so remiss, that it was not sufficient to prevent the contagion.

The governor of Acre checked the progress of this plague, by giving the inhabitants the means of withdrawing from its ravages: and these means, though absolutely contrary to the dogmas of the Mahometan religion, were eagerly embraced. The Europeans became their models: and the governor, after deriving from them every necessary information, together with his numerous family.

against this new method; reproached very few live beyond the thirteenth. the governor for his conduct; and,

person, concluded by threatening him with all the vengeance of heaven. The governor, however, only laughed at this pious folly of the muphti, and fent a detachment of foldiers, to impose a fine on him of two hundred and fifty fequins, for having dared to afcribe to him, in matters of religion, an ignorance, from every fuspicion of which his age ought to fecure him. This was attacking the pontiff on the weakest fide, and the most effectual means of shutting his mouth.

In Syria, as well as in Egypt, the plague begins in winter; acquires new vigour in the fpring; and decreases very sensibly with the great heats, about the commencement of June. Those attacked by this malady may then be cured: as it daily loses its activity, few of them die: and, for this reason, all the Europeans quit their houses on St. John's day, and repair to church to fing the Te Deum, and return thanks to the Almighty for their deliverance.

The plague of 1760 was one of the most malignant and fatal that Syria ever experienced. It scarcely made its appearance in any part of the body when it carried off the pa-tient. The usual symptoms were, a loss of appetite; a pain in the shoulders; a very violent head-ache. accompanied with a delirium, vomiting, and a most excruciating pain in that part where the tumour, by which the plague is characterised, was about to break forth. One only of these fymptoms was fufficient to make the Christians prepare for death. Every Catholic attacked by this diforder must be attended by a priest, who, thut himself up, after their example, having taken every possible precaution, prefents the eucharit to the The muphti alone, born the pro- fick on a finall piece of wood shaped testor of the Mahometan law, can-like a battledore, and about two feet not imitate a conduct which that law in length. An infected person often condemns. Instead of shutting him- dies the third day; if he passes that felf up with filence in a prudent term, it is a fign that the difease does confinement, he thundered forth not possess all its usual activity: but

It was observed during the last having treated him as an impious plague, that people of the founder constitutions

to this scourge, and the least capable did not receive warm bread; flesh of refisting it. On the other hand, it appeared to spare weak and delicate persons, whose cure, in case of an attack, was much less difficult. More Moors than any other people died of it; and when these were attacked, their case was absolutely desperate.

Those who have once escaped this scourge are afterwards less subject to be attacked by it: but it is not true that they are perfectly fafe, for I have known some who had been ill seven times, and yet died of it at

laft.

It has been remarked, that the fymptoms of the plague do not appear in the human body till fifteen days after the infection has been caught; and this is the reason of that law which subjects to a proof of twenty days every person suspected

of being difeated.

The plague, as I have already faid, is an oblong tumour, shaped like a pumpkin, which is at first of a flesh colour; but it gradually becomes red, and at length blueish; and this announces that the difease is incurable. If it continues red, and a little after inclines towards yellow, it is a fign that a suppuration will take place: the fwelling is then opened, and the patient is fometimes cured.

People attacked by this diforder require very little care. Pure water, panada, tea, and rice, are the only nourithment allowed them. There are some who think to cscape by drinking strong liquors; but experience has shewn this to be a dangerous mistake; and that those who trufted to it have almost always fallen a facrifice to their folly. The proper precautions are to shut onefelf closely up, and to receive no provifions, or other things, except those upon which the plague has no influence.

1760, admitted every kind of pro-

constitutions were the most subject out using certain precautions. They of every kind was thoroughly washed; and milk was strained through a piece of linen cloth, in order to free it from the smallest particle of animal hair. All kinds of pulse were foaked in water: and they ab. stained from peaches, apricots, and other fruits which are covered with a downy rind. Fowls were cooked out of the house, for fear that some fmall feather might adhere to them, Flowers were altogether profcribed. Letters they caused to be opened by the person who brought them; and they were never read until they had been steeped long enough in vinegar to be purified without effacing the writing. Every thing was received into the house by means of a rope of herbage suspended from a window,

The governor of Acre, in imita-tion of the Europeans, employed every precaution which he thought likely to guard him from the contagion; and, by flutting himfelf closely up, he set an example which the rest of the Mahometans did not neglect to follow. Befides this, he caused the streets to be cleaned; and carried his vigilance fo far, as to forbid the caravans, which arrived from Damascus, where the plague fwept off four or five thousand people every day, to enter the city.-He obliged them to submit to a proof of eight days without the walls; and established regulations of the same kind respecting vessels coming from Damiesta or Alexandria. One precaution taken in the time of the plague, is to prevent cats from entering houses: an open war is therefore declared against these animals; and wherever they are found, they are knocked on the head with large clubs. This is a cruelty absolutely necessary, for there is no vehicle that will convey the infection with more certainty or rapidity than the The destruction of hair of cats. The people of Syria, however, in them is however, attended with one inconvenience, which is, that it ocvision without fear, but not with- casions a multiplication of rats and

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icourge. It is to be remarked, that the plague, when it attacks man, spares quadrupeds and birds. The furs however of the one, and the feathers of the other, attract and communicate the infection. People ought above all to keep at a distance from goats and From oxen and horfes little danger is to be apprehended.

The French at Acre, as in every part of Syria, are collected into one quarter, where they sequester themselves entirely, and elect, every eight days, a merchant, and a clerk of the bank, to receive all unfuspected perfons, after using such precautions as may tend to lessen the danger of admitting them. This, however, is not always attended with the defired effect. On the 30th of March, 1760, five people in their quarter were attacked by the plague. As they belonged to the Hospital of the Holy Land, the monks were immeand even with their own fervants, the different courts of Europe, Each immured himself in his habi-

channel. desolated by this scourge. It pene- wife have become victims to it. trated even to Aleppo, where it

mice; but there is no instance of continued two whole years: nor were the inhabitants delivered from it but by an excessive cold. In this respect it was very different from that of Egypt, and the rest of Syria; for the plague there ceases only during the great heats, which are remarkably regular in these countries, while it is very rare to experience a cold fo rigorous as to check the contagion.

The inhabitants of Acre amounted only to fixteen thousand; and in the short space of five months, five thousand of them died of the plague. On St. John's day, June the 24th, 1760, the French, who form here the major part of the Europeans, opened the barriers which furrounded their quarter, and began to form a communication with those without. They then relaxed in their caution; the places of worship were cleaned, and each nation went to return thanks to the Almighty.

The French have a physician, who is allowed a falary from the national diately ordered to shut themselves funds. On the least rumour of the closely up; but eight of them died, plague, the consul sends him to the and one only escaped. This cir- place where the symptoms have apcumstance occasioned so much con- peared: after this he makes his resternation among the French, that port; and this report, which annuls they gave over having communica- or realifes the fuspicion, is inserted tion with every person whatever, in the letters of health dispatched to

In general, too many precautions tation for fifteen days; at the end of cannot be employed to guard against which, affairs returned to their usual this dreadful scourge; for proper vigilance has fometimes faved the All the cities of Syria were equally lives of thousands, who would other-

#### ACCOUNT OF ZAARA, IN AFRICA.

BY M. SAUGNIER.

cupy the three kingdoms of Suz, Fez, and Morocco. That part of Bilidulgerid that is washed by the Vol. XI.

VERY body knows that the native Arabs, and by the fugitive People who inhabit Barbary, Moors from the empire of Morocco, as far as the Niger, are an affemblage too enlightened to remain under of various nations. The Moors oc- the dominion of a master, who rules over his people with absolute sway, and who makes his fafety and happinels confilt in the milery of his Atlantic Ocean is inhabited by the subjects. This mixture forms one E c and

Monfelemines.

Zaara, as far as the Niger, contains a variety of wandering nations, all proceeding from Arabs, Moors, and fugitive Portuguese, who took refuge there when the family of the Sherifs made themselves masters of the three kingdoms of Barbary. All these people bear indiscriminately the names of Nars, Moors, or Arabs. They are fubdivided into various nations, of which the most confiderable are the Mongearts, Trafars, and Bracnars.

The first of these three denominations is a term of contempt among the people who furround them; no doubt because those who bear it, less verted than their neighbours in the use of arms, are in general occupied by the care and the feeding practice. of their cattle; while the Monfelemines, on the contrary, though shepherds also, are warriors to a These latter accustomed to murder and pillage, take advantage of their fuperiority and numbers to oppress the former, who are always rendered but too wretched by the Aeritity of the country they inhabit. Their climate, little tempting to an invader, ferves them it is true, as a barrier; but in the months of August, September, and October, when the overflowing of the plains obliges them to take refuge in the mountains, they are almost fure of becoming the victims of their neighbours, who pillage them without feruple, although they profels the fame religion.

The cause of this nation's distress might also be afcribed to another reason; I mean to that of religion. When the Sherifs made themselves masters of the three kingdoms of Barbary, the Portuguele mhabitants of the towns evacuated thein, and fought an afrlum in their native land; but the country people had not this advantage within their reach. The greater number, to pre-Serve their lives, abjured the Chris- lie, unless when a Mahometan prick

and the same nation, known indiftian religion, and were allowed to criminately by the appellation of remain in the country; while those who would not embrace Mahometanilm were put to the fword with. Notwithstanding the out mercy. change in their religion, it was flill remembered that thefe people had been Christians. The conquerors loaded them with ingestant infults; plundered their property; carried off their wives, ravished their daughters, and behaved with the utmost cruelty.

To escape from such tyranny they took refuge in the defert, and finding there some wretched hordes of flothful Arabs, were foon incorporated into one and the same nation, The habit of plundering these poor people has been handed down from generation to generation, and unfortunately is still but too much the

I will not speak here of the Trafars, or of the Brachars, any more than of the other nations scattered about on the northern banks of the Niger. Such information would too nearly relate to commerce of which I referve a fuccintt mention for the moment when I shall treat of the Moorish and Negro races, who carry on the trade of Senegal, no historian having as yet given certain accounts of them.

It is not possible that a people, for ever wandering, and fugitive, and composed of a mixture of various nations, that does not even form a distinct and separate body, should do otherwise than adopt a part of the ulages and superstition of their neighbours, whatever may be their way of thinking: they have however only the name and appearance of Mahometans. The principles of the natural religion are observable in their cultoms, and evident in almost all their actions.

Religion, according to thele peo. ple, is Mahometanism in all its purity. They offer up prayers three times a day, fometimes oftener; but they are never pronounced in pub-

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Then all the Arabs afeducation. semble at the hour of prayer, place mon to all. themselves in a line, turn to the east, and, wanting water in the defert, rub their face and arms with fand, while the priest recites aloud the general prayer; it is the same as that which is rehearfed by the public crier on the molques in the civilifed countries.

The priefts are employed in travelling about the country to There is instruct the children. nothing like force in their education. The Arabs of the defert are even ignorant of the custom of con-

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The little boys meet in the morning of their own accord, at the place of instruction, which is to them a They go there place of recreation. with a small board inscribed with the Arabic characters, and a few maxims of the Koran. The biggest, and the best informed, receive their lessons directly from the priests, and afterwards communicate them to their fellows.

The children themselves teach one another to read; nor are they ever corrected. It would be a crime to beat a child, who according to the received ideas, has not sufficient reason to distinguish good

from evil.

This opinion induces these people to hold the same conduct in regard to those who have the misfortune to be ill-treated by nature. The deaf, the dumb, and the mad, enjoy the fame privileges; they are confidered as beings already fo unfortunate from their fituation, that their delires are fatisfied with a blind complaifance. This custom is invariable among all the Mahometans.

No difference exists among the civilized nations, unless it be in respect to the age at which a child may be subjected to correction. the defert it is never allowed at all. Nature, left to herfelf and the

is with the horde, who feldom comes force of example, are the only edubut upon account of the children's cation in a country where the same principles and same errors are com-If the child gets tired of the places of public instruction, he quits them at pleafure, and without feeling constraint, or hearing reproach, goes and employs himfelf in tending his father's flocks: and accordingly there are very few among them who can read.

Those who persevere in the study of the Koran are made priefts, after having past an examination before the learned elders, and enjoy the greatest public consideration. They have no need of cattle, those of the nation being their's, they find their

fubfistence every where.

It is generally at feven or eight years of age that children undergo the painful operation of circumcifion. Their head is always shaved, nothing being left but four locks of hair, one of which is cut off in a meeting of the family, at each remarkable action performed by the child.

If, at the age of twelve or thirteen, he kill a wild boar, or other beaft of prey, that should fall upon his flock he lofes one of his locks. in the passage of a river, a camel be carried away by the stream, and he fave it by swimming to its assistance, another is cut off. If he kill a lion, a tiger, or a warrior of an hostile nation, in a supprise or an attack, he is confidered as a man, and his head is entirely shaved.

Seldom does an Arab reach the age of twenty, without having deferved this honour, for as they are ashamed of being treated like children, they expose themselves to the greatest dangers to obtain it.

Their knowledge, their wants, and their laws, being very circumscribed, it is not surprising that the children should talk with the men, and keep up a regular conversation. Age and experience are of no ule where there is no need of much information to attain a perfect know-

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tions; hence arises that boldness, that valour, and that temerity, which fo well become a man, and which no people possess in so high a degree

as these savages.

The laws of hospitality are obferved in Zaara, in the largest sense Scarcely does a of the word. stranger appear before the tents, when the first person who perceives him, points out the tent to which he is to go. If the master be not there, the wife or the flave advances to meet him, stops him at twenty paces distance, and brings him a draught of milk for his refreshment. His camels are then unloaded, his effects are ranged around him, a mat, of which the owner deprives himself, is given him, with whatever elfe is necessary to guard him from the injuries of the air.

His arms are taken and deposited near those of the master of the tent, either that they may not fuffer from the dew, or to guard against ill intentions on the part of a man unknown. A repast is then prepared for him. If there be nothing in the tent, as often happens, some victuals are speedly procured from the neighbouring ones. The traveller is always fure of having fomething, for rather then let him want, his hosts would go without a supper

themselves.

The duties of hospitality are fo great, and to much respected, that should an enemy have wounded, or even killed the master of a tent, would there meet with a facred and inviolable afylum, although furrounded by those who must naturally

desire his ruin.

The tent of the chief is always the one pointed out. But as his gains are not greater than those of the rest, he could not, if custom had not provided for it, entertained at his expence, all the strangers that happen to pass; nor could he support himself and his slaves, since he

ledge of the customs of their na- is for ever occupied by the affairs of his horde. Every tent contri-butes to his stock of provisions, Each individual generally turnish. ing him two pounds of ground barley per week, which is a great advantage to him, especially when he happens to have few travellers to entertain. As the richeft in caltle is generally chosen for chief, he has plenty of milk; but in case of need he would obtain a fupply any where.

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Different from the other Arabs, their neighbours, the Mongearts, trouble nobody on the fcore of re-The only one they do not ligion. tolerate is the Jewish; no doubt on account of their ancestors' prejudices, who followed the customs of the Portuguese. None of the Hebrew nation is found among them; and if a Jew had the misfortune to enter their territory, and to be taken there, he would to a certainty be burnt alive. It is very eafy to know them by their faces, and by the distinctive dress they are obliged to wear throughout the whole extent of Barbary, where they are in great numbers.

Infinite respect is paid to all old men, whatever be their family. They enjoy the fame prerogatives as the priefts, and equal confideration with them and the Arabs who have had the good fortune to visit the tomb of Mahomet at Mecca.

The latter are distinguished by the appellation of fidi, which fignifies master, while the rest of the nation only bear the distinctive names they received at their birth. If it happen that two individuals of the fame family have the fame name, they are diftinguished by that of their father; for instance, the emperor of Morocco's true name is Mohammet, but as he might be confounded with many other Moors, who bear that name, he is generally called Ben Abdella.

To be continued.

## ON THE TRIAL BY ORDEAL AMONG THE HINDUS.

BY WARREN HASTINGS, ESQ.

From the Afiatic Refearches.

by an appeal to the Deity, Mitácsherá, or comment on the Dherma Sástra, in the Chapter of Oaths, and other ancient books of Hindu law, are here sufficiently explained, according to the interpretation of learned Pandits, by the well-wisher to mankind, Ali Ibrahim Khán.

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The word divya in Sanscrit fignifies the same with paricshà or parikhyà in Bháshà, kasam in Arabick, and faucand in Persian; that is, an oath, or the form of invoking the Supreme Being to attest the truth of an allegation; but it is generally understood to mean the trial by Ordeal, or the form of appealing to the immediate interpolition of the Divine Power.

Now this trial may be conducted in nine ways: first, by the balance; fecondly, by fire; thirdly, by water; fourthly, by poison; fifthly, by the Cósha, or water in which an idol has been washed; fixthly, by rice; by red-hot iron; ninthly, by images.

I. Ordeal by the balance is thus performed. The beam having been and both scales made perfectly even, the person accused and a Panwater, the homa, or oblation, prefented to fire, and the deities worshipped, he is carefully weighed; and, when he is taken out of the scale, the Pandits prostrate themselves before it, pronounce a certain mentra or incantation, agree-brought back, his ably to the Sastras, and, having as fully proved. written the substance of the ac-near Banares, it

HE modes of trying offenders and, if he weigh more than before, he is held guilty; if lefs, innocent; which are described at large in the if exactly the same, he must be weighed a third time; when, as it is written in the Mitachera, there will certainly be a difference in his weight. Should the balance though well fixed, break down, this would be confidered as a proof of his guilt.

> II. For the fire-ordeal an excavation, nine hands long, two fpans broad, and one span deep, is made in the ground, and filled with a fire of pippal wood: into this the person accused must walk bare-footed; and, if his foot be unhurt, they hold him blamelefs; if burned, guilty.

III. Water-ordeal is performed by causing the person accused to fland in a sufficient depth of water, either flowing or flagnant, to reach his navel; but care must be taken that no ravinous animal be in it, and that it be not moved by much air: a Bráhman is then directed to go into the water, holding a staff in his hand; and a foldier shoots three feventhly, by boiling oil; eighthly, arrows on dry ground from a bow of cane: a man is next dispatched to bring the arrow which has been fhot farthest; and after he has taken previously adjusted, the cord fixed, it up, another is ordered to run from the edge of the water; at which instant the person accused is dit fast a whole day; then, after the told to grafo the foot or the staff of accused has been bathed in sacred the Brahman, who stands near him in the water, and immediately to dive into it. He must remain under water till the two men who went to fetch the arrows are returned; for, if he raife his head or body above the furface before the arrows are brought back, his guilt is confidered In the villages near Banares, it is the practice for cusation on a piece of paper, bind the person who is to be tried by it on his head. Six minutes after, this kind of Ordeal to stand in they place him again in the scale; water up to his navel, and then, holding

holding the foot of a Brahman, to dive under it as long as a man can walk fifty spaces very gently; if, be-fore the man has walked thus far, the accused rise above the water, he is condemned; if not, acquitted.

IV. There are two forts of trial by poison. First, the Pandits having performed their homa, and the perfon accused his ablution, two retti's and a half, or feven barley-corns, of vishanaga, a poisonous root, or of fanc'hya, that is, white arfenic, are mixed in eight mathas, or fixtyfour retti's, of clarified butter, which the accused must eat from the hand of a Brahman: if the poison produce no visible effect, he is absolved; otherwife, condemned. Secondly, or a coin; this the person accused is ordered to take out with his hand; and, if the ferpent bite him, he is pronounced guilty; if not, innocent.

V. Trial by the Cosha is as follows: the accused is made to drink three draughts of the water, in which the images of the Sun, of Dévi, and other deities, have been washed for that purpose; and if, the Dherma Sastra, that each of the within fourteen days, he has any fickness or indisposition, his crime

is confidered as proved.

throw it on some leaves of pippal, have any trial except those by poior, if none be at hand, on some son and by water. b'húrja patra, or bark of a tree from the rest are acquitted.

burned, is held innocent.

VIII. In the fame manner they make an iron ball, or the head of a lance, red-hot, and place it in the hands of the person accused; who; if it burn him not, is judged guiltlefs.

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IX. To perform the ordeal by dharmarch, which is the name of the floca appropriated to this mode of trial, either an image named Dharma, or the Genius of Justice, is made of filver, and another, ealled Adharma, of clay or iron, both of which are thrown into a large earthen jar, and the accused, having thrust his hand into it, is acquitted if he bring out the filver image, but condemned if he draw forth the iron: or, the figure of a deity is the hooded inake, called naga, is painted on white cloth, and another thrown into a deep earthen pot, on black; the first of which they into which is dropped a ring, a feal, name dharma, and the fecond, adharma: thefe are feverally rolled up in cow-dung, and thrown into a large jar without having ever been shewn to the accused; who must put his hand into the jar, and is acquitted or convicted, as he draws out the figure on white, or on black, cloth.

It is written in the comment on four principal cafts has a fort of ordeal appropriated to it; that a Brahman must be tried by the ba-VI. When several persons are lance, a Cshatriya by fire, a Vaisya fuspected of theft, some dry rice by water, and a Súdra by poison; is weighed with the facred stone but some have decided, that any called falcram; or certain flocas are ordeal, except that by poifon may read over it; after which the ful- be performed by a Brahman, and pected persons are severally ordered that a man of any cast may be to chew a quantity of it: as foon as tried by the balance: it has been they have chewed it, they are to determined, that a woman may

Certain months and days also are Népal or Cashmir. The man from limited in the Mitacsherá for the whole mouth the rice comes dry or different species of ordeal; as Agrastained with blood, is holden guilty; han, Paush, Magh, Phalgun, Srawan, and B'hadr for that by fire; VII. The ordeal by hot oil is A'fwin, Cartic, Jaisht, and A'shadh. very fimple: when it is heated for that by water; Paush, Magh, and fufficiently, the accused thrusts his P'halgun, for that by poison; and hand into it; and if he be not regularly there should be no water ordeal on the Ashtemi, or eighth,

the Cheturdasi, or fourteenth day of the new or full moon, in the intercalary month, in the month of B'hádr, on Sanaischer, or Saturday, and on Mangal, or Tuesday; but whenever the magistrate decides that there shall be an Ordeal, the regular appointment of months and days needs not be regarded.

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The Mitachera contains also the following distinctions: in cases of theft or fraud to the amount of a hundred gold mohrs, the trial by poison is proper; if eighty mohrs be stolen, the suspected person may be tried by fire; if forty, by the balance; if from thirty to ten, by the image water; if two only by of filver and iron.

## ESSAY ON VARIOUS SPECIES OF VANITY.

EVERY human breaft is tinetured methods to gain applause and ap-with vanity. Self love is the pear eminent in some way or other. reigning principle of man; and felf love begets felf partiality, However inattentive others may be to our accomplishments, we commonly are quick to discover them ourselves, and that too through a magnifying glass. An ambition to excel, and a fondness for appearing eminent, have undoubtedly a good influence in the world, by making individuals strive after those accomplishments, which attack the attention and command the applause of mankind in general. Were it not for these principles and paffions-the principles of felf love and an ambition for applaule, verging on the confines of vanity, mankind would rife but a little above the low accomplishments of the brutal creation. But as every avenue for the introduction of good is an inroad for evil, and as every pleasure has its concomitant pain, fo a laudable ambition is not only the fource of virtue, but also of pride and folly. Few, if any, are wife enough, fufficiently to controul this passion of felf love; and very few can difguile the tents of pride which are pitched and spread within their hearts. Every one is studying for

An inspired legislator named Cátyáyana, was of opinion, that though a theft or fraud could be proved by witnesses, the party accufed might be tried by Ordeal: he fays too, that where a thousand pana's are stolen, or fraudulently withheld, the proper trial is by poison; where seven hundred and fifty, by fire; where fix hundred and fixty-fix, and a fraction, by water; where five hundred, by the balance, where four hundred, by hot oil; where three hundred, by rice; where an hundred and fifty. by the Cófha; and where one hundred, by the dharmarch, or images

The methods purfued are as different as the characters which purfue them. And unhappily for many, they frustrate their own defigns by the very means which they injudiciously adopt for their accomplishment. But one general feature may be discovered in the pursuits of all, and that is a defire of being thought wife. And it is difficult to determine which is the most vain of his abilities, from the greatest philosopher to the most impenetrable numbskull. Some endeavour to discover their wisdom by writing, some by talking, and others, perhaps, more judiciously, by holding their tongue. I term the latter method the most judicious, because I consider it the fafeit, as folly itself, in this way, difguifed by a grave look, a fapient air, and a close mouth, may often pass for wildom. The world too, perhaps, in no instance are more candid than in this particular-for I have rarely known an inflance where a bungling speaker has not been effected an excellent thinker -if he feldom or never communicates any thoughts, furely he must have an immense fund within. Some will

down to his pupils as a maxim, that the more any one in fact knew, the very wife man indeed who was fenfible that he knew nothing. After advancing his rules and descanting floridly upon them, he concluded by observing, that he, in his own opinion, was not two removes from an ideot. Some pride themselves in a knowledge of the world, in polite accomplishments and genteel behaviour-whilst others, in opposition to these, and to show that they are too wife to attend to fuch trifles, discover as much pride by behaving Some pride themlike clowns. felves in their liberality in things of a religious nature; they would wish to appear too enlightened and poffessed of minds too great and independent to be tied up to any particular doctrines, rules or principles of Christianity, and affect to despife religious forms and ceremonies; while on the contrary extreme, others discover an equal degree of vain glory and felf conceit in uncommon displays of fanctimonious looks, and unufual professions of picty and devotion. Some, to show their fingularity in genius and tranfeendency in liberality of fentiment, will behave on days of public lamentation, fasting and prayer, with all the fellivity fuitable to times of rejoicing and mirth. Others again reprobating these as proud, vain, and impious fools, would convince the world of their superior wildom by an over rigorous observance of the day. I have known it a rule among fome of this last class of people, never to shave themselves after the reading of a proclamation for a public fait until the day appointed is past; and on the folemn day, in all the pride of oftentatious fauctity, to attend public worship with their

will endeavour to convince the long beards, dirty apparel, and a world that they are wife by pro-felling themselves to be fools—Thus expressed in facred record, "bowing it is storied of a former president of down their heads like a bulrush. an American college; he laid it that they might appear unto men to fast."

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But in none of these pursuits are less opinion he would have of his men more apt to frustrate their deown abilities; and that he must be a figns than by endeavouring to appear wife, and gain applaule by the exercise of wit. Wit is a happy talent if regulated by judgement: but the man who is fond of exercifing his wit commonly becomes a dupe to it. Injudicious, illiberal witticifms often captivate the attention as much as those of a different nature. Those who are ambitious of diffinguishing themselves this way, will frequently therefore be fevere, and thereby procure implacable enemies: they will too, most unavoidably run into little, low, trifling witticisms, and complete buffoonery, which, notwithstanding they may create laughter, will as furely beget comtempt, and establish a character far different from the one purfued; for instead of being thought wifer on this account they will be confidered as possessing little, narrow, trisling minds, and will serve to illustrate by lively specimens the aptness of the poet's observation - "a wit's a feather"-Any circle of gentlemen or ladies, poffeffed of common fense, and having proper ideas of their own dignity, will feel themfelves trifled with and infulted when their time and attention is engrossed by characters of this defcription-Any one who exercises witticifms of this kind in fuch a circle may depend upon their contempt—they will confider themselves as treated like children by his endeavouring to pleafe them with a rattle-and if they laugh it will be more at him, than at what he fays. Wits of this kind will be considered, not only as feathers-but as the musketoes of lociety-senseless and difgusting when they buz, and painful and poisonous when they bite.

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# REVIEW OF NEW PUBLICATIONS.

### BRITISH PUBLICATIONS.

A PICTURESQUE TOUR THROUGH PART OF EUROPE, ASIA, AND AFRICA. Small 4to. 1793.

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IN our Magazine, Vol. VII. we inferted a flight account of Lettres fur divers Endroits, par Basani. This is a translation of that work, ornamented with plates, after defigns by James Stuart, Esq. author of the Antiquities of Athens. These plates are, a view of the Naumachie at Palermo. A Doric Portico, at Athens. The Temple of the Wings, at Athens. The Temple of Jupiter Olympus; and the Ionic Temple on the Ilvisus.

These prints are well executed, of the master from whose designs they are taken, his same is too well established to need any comment. The translation of the work has merit, and clearly shews that much more pains has been taken with it, than is in general bestowed on modern quarto tours. The following extracts from it we think will please.

### LETTER VIII.

Salonica, June 3, 1788.
Surrounded by the enchantments of fable, we traverfed the Egean fea, with varied emotions of pleafure, rapture, and aftonifiment at every object we beheld. Every illand and rock, even the fky, and the fea tifelf, are interefting to the claffical obferver. Hence the world has been peopled with gods, heroes, legislators, poets, orators, philosophers, and artifts; and with women too, whose beauty gave animation to the marble under the hands of Phidias and Praxiteles: and when we reflect that nothing more remains of them but their athes, who can repress the heaving figh?

We are now coafting along Ionia. The country of Homer prefents itself to view, and attracts our whole attention. On the shore are handsome buildings, and the flags of various nations are seen flying in the port. A forest of cypresses, which commands the town, gives a melancholy, yet majestic air to the whole country. These houses, which are of wood, recall to my recollection the capital of the kingdom of Vol. XI.

Creefus, which was built of reeds. The dread of the plague obliges us to leave this place: it now rages with great fury.

Calms, and the approach of night, obliged us to anchor at Leftos in the harbour of Metelin, which ftands on the ruins of the ancient Mitylene, the very port in which the Athenians triumphed over the Spartans-Cruel Sappho, unhappy Alceus was not unworthy of thy love! but Phaon's obduracy well revenged his wrongs. We hear a frightful howling—it proceeds from the terrified Turks; who, not knowing our veilel, are making fires on the caftle to give an alarm, which they further endeavour to foread by their cries.

The fky is ferene; and now that the greater part of mankind, forgetful of their cares, are wrapped in fleep, thele wretches are kept awake by their fears; while we remain upon deck, continuing our converfation on this island, which has still charms for us. It was formerly renowned for its fertility, the beauty of its women. the excellence of its wines, especially those of Methymne, and the skill of its musicians : the celebrated Arion being a native of this piace, as well as Terpander, who put the feven first strings to the lyre. The number of towns in this island was feven, Mitylene, Methymne, Troas, Antilla, Pyrra, Arifba, and Ereflos the birth-place of Theophraftus, who made this memorable speech to his disciples, on his death-bed: " Life is " delufive; it promifes us great pleafure in " the possession of glory; but scarcely have " we begun to live, when we are called to No passion is often more fruitles's " than a love of fame. Nevertheless, my " disciples, be contented: if you set little " value on the efteem of men, you will " fave yourfelves much labour; if your " courage does not fink under it, glory may " happen to be your recompence. " member only that there are many ufelefs " things in life, and few that lead to a fure " end.

We dwelt too with pleafure on the idea of being now in the port of a city formerly for remarkable for its magnificent buildings, and whose theatre furnished Pompey the Great with a model for the one he built at Rome, and which contained upwards of 40,000 persons; where Epicurus, and Aristotle taught for some time, and in which Marcellus passed his days in philosophical retirement after the battle of Pharlaila. This town gave birth to Alceats, the teath muse, whose famous ode we have solemnly recited. The historian Hellaniqus was been solved.

born here; as was Pittacus, one of the take the inhabitants of thefe in like manner; feven fages, who became the tyrant of his country in order to restore liberty to it.

The rifing fun at length gratified our impatience to behold the ifland. It is pretty well cultivated, the foil and climate being very favourable to the production of wine, olives, corn, and figs. A nearer view of the morques and I o fes thrangely deranged our last night's illusions. The Turks foon recovered from their terror; but we did not go on thore, on account of the plage e, w ich drove us hence, as it did from This island is to the east of Asia Smyrna. Minor, and is a hundred and fifty miles in circumference. Black marble was formerly

procured from its quarries.

We cast anchor at Tenedos, flatio mal fida carinis, opposite to the kingdom of Priam. In the numerous fummits, the lofty pines, the water and the woods of mount Ida, we beheld the original of that picture which the immortal Homer drew three thousand years ago. Troy is no more; but this famous city, with the fleet and army of confederated Greece, still exist in the pages of Homer and Virgil. There are here fome magnificent ruing in marble, which, as we were informed, are the wrecks of a gymnafium of the fecond Troy, one of the eighteen cities which bere the name of Alexander. These ruins are the more venerable, by being embofomed in con-tecrated groves, and figuated in the middle of a plain watered by the Simois, which is atferwards loft under the tunnnit of mount The like feourge which hindered us Ida. from landing at Smyrna and Lefbos, prevented us from going afhore here. wished much to tread that earth which has been drenched with the blood of fo many heroes; but we were obliged to have patience.

The ifland of Tenedos, rendered immortal by the retreat of the Grecian fleet, ftill retains its former name, and continues to be inhabited by Greeks, who carefully cultivated its foil. The mufcad ne grapes of this ifland are excellent, and much fought after throughout the Levant. The village, as it appeared from our vettel, is built on ancient ruins, and contains nothing remarkable. It is one of the iflands reduced by the Perfians in a very extraordinary manner, if we can credit Herodotus, the father of history, who tells us, that the inhabitants of Chio and Lefbos, two iflands of confiderable extent, together with those of Tenedos, were caught by the barbarians in a fort of net; for the latter, taking each other by the hand, and forming a line from north to fouth, drove the people before them. What feems most curious is, that the above hittorian, after having spoken of the conqueit of the Ionian towns on the continent by the fame fleet, very ferioufly adds, that the Perhans did not attempt to

for this, fays he, would have been impossible. Admitting the truth of the former account, nothing feems to have been eafier.

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In reflecting on the antiquity of the plague in the east, I cannot forget that which broke out at Troy during the fiege. It first attacked the mules and dogs, and afterwards the foldiers. The poet ascribes it to divine wrath, as the Jewish pfalmist does the plagues of Egypt, which produced the fame effect. Some commentators affirm. that providence has difposed things in this manner, to give men time to fee and to repent of their crimes. What a pity that those gentlemen themselves were not then living! the foldiers would have been warned to be on their guard, and the mules would

have been fpared.

We paid a vifit to the ifland of Lemnos, called by the Greeks Stalimene, after the name of its ancient capital. It forms a fquare of almost twenty-one miles, and produces vines, corn, &c. which are cultivated by the Greeks. The terra lemnia, of which the ancients have faid to much, is found here in great plenty. As it is fo celebrated, I thall mention it also, in order to inform you that our pilot endeavoured to perfuade us, that it is a remedy for all difeafes; whence I conclude it is good for nothing. Not having landed, however, we did not fee it. Homer favs, that wine was carried from this island to the siege of Troy; and I am not furprifed that Juno tent hither for the god of fleep. Hither poor Vulcan was precipitated from heaven: but the explanation of this fable is, that there are here a number of fubterraneous fires. Pliny mentions a famous labyrinth in this island, of which he had feen the ruins; whilft that of Crete, fays he, is no The hundred and fifty columns of the building, manufactured with a lapi-dary's wheel, were fulpended from a peculiar machine, and might be turned by a child. We staid here an hour, and afterwards continued our journey.

We next beheld Strymon and Stagira. Happy country! thy Aristotle will enjoy a fame as latting as that of his pupil Alexander.

Why does mount Athos hide his head in the clouds? I have discovered the reasod: to conceal the bluthes excited by furrounding ignorance and fuperstition, which feem to have taken up their refidence in the fourfcore convents of the Caloyers. monks (lazy drones) of the order of St. Bafil, who do very little honour to their founder. They amount to fix hundred in number; and the convents have artillery to defend them against banditti. It is faid, that they are in possession of some very ancient and rare manufcripts; and that they do not read them, which I can eafily credit. Herodotus tells us, that Xerxes pierced the ifthmus of this promontory.

We had now in view Olympus, who feparated Macedonia from Theilaly, the valley of which, anciently called Tempe, fit retains the fame name, and also Oila and Pelion. This view like many others which have delighted us, would throw a poet into ceftacy; for we, who are not inspired by the muses, cannot refrain from admiration. Some of us are even become poets; and who that breathes this air, in which the muses were nursed, and which kindled the fire of the greatest geniuses of Greece; can help catching a portion of entursaling and the state of the transfer of catching a portion of entursaling and the state of the state of the state of the greatest geniuses of the state of the state

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We paffed from the gulf Syngiticus to that of Thermaicus, and anchored in the bay of Thermes, Thefilalonica or Salonica, in the country of the Mynnidons.

### LETTER IX.

Salonica, June 15, 1788. Thank God, the plague is not here!the Turks being now in their holy month, the Romazan, which is their Lent, the minarets of above forty mosques prefent magnificent illuminations every night. As Mahomet received the Koran from heaven in the moon Ramazan, he confecrated it to fasting, from which it derives its name. This Lent is far more rigid than that of the Roman Catholics; the Turks not being Roman Cathories, the all the day, and allowed to cat any thing all the day, and drink, or to fmoke. Those still less to drink, or to smoke. therefore who have nothing to do, go to fleep, to avoid languor; or gravely founge on the fopha of a shop, and kill time by continually turning the beads of a rotary, and looking at the paffengers. Immediately after fun-fet, the mu-zzins, or cries of the mosques, gave notice that it is time for Musselmen to dine; but their impatience generally anticipates this warning. then fet about their prayers and ablutions with all possible dispatch, that they may the fooner enjoy their pipe and coffee.

I must not forget to tell you, that the minarets are towers built in the form of fpires, gradually diminishing upwards, with a galley at about one third of their height, and terminating in a point, over which is pla.e.l a golden crofs. The criers, entering this gallery through a door which opens eaftwards towards Mecca, put their hands on their ears as if they were going to stop them, and, first turning round towards the four cardinal points, repeat thefe words in a tone as if they were chanting: " God is "great-God is God-there is but one "God, and Mahomet is his prophet. Come " to good works, haiten to prayers, &c." This notice they repeat five times a day. On these occasions many repair to the mosques; but the greater number pray in their own houses, or wherever they may then happen to be.

I dined to day with a Turk. The gates were thut a little before fun-fet; and I

was waiting at the port for our boat to take me on board. The furgeon of the thip was with me; and as we knew not what to do with ourfelves, we went into a Turkish coffeehouse on the beach, and were extremely happy to find nobody in it but the mafter. The muezzins having at this time begun to call the people to prayers, the coffeehouse-keeper instantly betook himfelf to a neighbouring fountain, knelt down, raifed his eyes towards heaven, then turned them downwards to the earth, which he appeared to kifs; and began to wash his hands, fect, arms, head, neck, ears, note and noftrils with a furpriting air of gravity and devotion. Having finished his prayers and ablutions, he spread out a mat before the door of the coffeehouse, and placing upon it a large dish of tinned copper, two feet in diameter, and containing five or fix different forts of meat, he and his fervant fat down together crois-legged to partake of a repaft. As we looked at him from motives of curiofity, he thought the cravings of hunger were felt as ftrongly at our ftomach as at his own, and invited us by figns to dinner with him, adding, in Italian, Mangiare, mangiare. This invitation, an act of hospitality in which the Turks are never deficient, we readly accepted. The dithes confitted of mutton fteaks, and forced-meat bails filled with fpices, which the Turk feemed greatly to prize, for he observed to me that it was bono: there were likewife fifh, and pilaw, which confifts of dry rice boiled with mutton fat. We are with our fingers, for in general the Turks use neither forks nor spoons. With respect to the pilaw, we were obliged to give that up, not liking it to well, nor being able to manage it to dexteroufly as our companions, who fwallowed it after having first made it into bails with their fingers. Their bread is a fort of cake pretty well tafted: the Turks use no other, or at least give the preference to this above every other kind. As it is not customary here to drink during meals, the two Muffulmen got up to go to perform ablution, and to drink at the fountain; and we went on board our veffel.

You know that idiots make their fortunes in Mahommedan countries, or at leaft live very much at their cafe, without being obliged to work for their bread. In one corner of the coffeehouse was a negro woman fitting upon a mat, naked, or at leaft nearly fo; the was very old and frightfully ugly, but of this the was not fenfible: the fwatlowed every thing offered to her, even tobacco, which thewed that the had really loft that reafon which the gods, fays an ancient, gave us in a fit of anger. Sine had no cares, however, and but few wants, which were even anticipated by the humanity of her protectors. She had been supported by the piery of true believers ever F f 2 fince

fince the was ten years of age. I faw likewife a madman amufing himfelf with caning the Janissaries in the street. respect of the Musselmen for maniacs often extends even to adoration. On this oc-Bibliotheque Orientale of Herbelot.-A caliph of Bagdad, having heard that there was a madman who pretended to be the Deity, ordered him to be brought before him, to examine whether he was really infane or an impostor. For this purpose he thus addreffed him: a few days ago a man was brought before me, charged with counterfeiting infanity, and wishing to país as an envoy from heaven; I committed him to prison; and the consequence was, that he was tried, and condemned to lose his head. The fool immediately replied: you acted as one of my good and faithful fervants: your conduct is to me highly agreeable; for I did not bestow the gift of prophecy on that wretch, nor did he receive any mission from me. On hearing this, the caliph was almost ready to fall down on his knees and adore him, for the Turks believe that fuch people are inspired by the spirit of God. This idea may lay claim to the fanction of antiquity, and is to be met with, at least to a certain degree, even in polifhed focieties, as well as among favage tribes. Does this arife from an idea that the lofs of reason is to be accounted a happinels referved alone for the favourites of heaven? or do the Turks think that thefe people resemble those gods, who, according to the Pagan mythology, were not remarkable for their wifdom?

THE PRIVATE LIFE OF THE LATE BENJAMIN FRANKLIN, LL.D. Late Plenipotentiary from the United States of America to France. Originally written by Himfelf.

The life of that truly great philofopher and politician, Dr. Benjamin Franklin, has long been a defideratum in the literary world. former part of this work is faid to have been originally written by Dr. Franklin himfelf in English; from that work, translated into French and published at Paris; and from the Paris edition again translated into English, and now presented to the public.

This first part, said to be written by the doctor himfeif, appears to us to bear ft:ong internal marks of authenticity. The latter part, which is acded by the French editor, is

compiled from the works of Briffot. Condorcet, Rochefoucault, &c. and from the eulogium of M. Fauchet, Of the latter part we shall fay little, being only inferted to eke out the life; but the former contains much useful and entertaining matter. The doctor gives the following reason for undertaking this account of his life.

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My dear fon, I have lately amused myself with collecting fome little anecdotes concerning our family. You must remember the enquiries that I made among fuch of my relations as remained alive, when you were with me in England, as well as the journey I under. took for that purpose. As I conceive that it must be agreeable to you, to be acquainted with all the circumstances of my life and origin, many particulars of which are at prefent unknown to you, I now mean to commit them to paper for your information. It shall be the occupation of a week's uninterrupted leifure, which I promife my. felf in my present rural retirement. Befides, there are other powerful motives, which impel me to this undertaking .... From amidft the poverty and obscurity in which I was born, and in which I paffed my early years, I have raifed myfelf to a fituation of opulence, and to some share of celebrity in the world. An uninterrupted feries of good fortune has accompanied me, even to an advanced period of life; my posterity will therefore perhaps be gratified in learning the means which I have employed, and which, thanks to the affiftance of Providence, have fo well fucceeded with They may also derive some useful hints from my experience, should they ever find themselves in similar circumstances.

This good fortune, when I reflect fe-riously on it, which is frequently the case, has fometimes induced me to fay, that if the offer were made to me, I would again engage to travel over the fame course, from the beginning to the end. I should only defire the privilege of an author in a fecond edition, to correct some of the errors of the fish. I should likewise wish, were it in my power, to alter fome particular incidents and events of my life, for more favourable ones. However, if this condition were refused me, I should nevertheless confent to begin again. But fince to repeat life is impossible, that which in my opinion most nearly resembles it, is to recall all its particular circumstances, and to render the remembrance of them the more durable, by committing them to writing. In employing myfelf thus, I shall yield to the inclination fo pleafing to old men, to talk of themselves and their own actions; and I shall include it without being burdenfome to thoie, who, from respect to my

age, might think themselves obliged to liften to me, as it will be always in their option either to read or not, as they pleafe. In truth, I may as well confet's (as nobody would believe me if I should deny it), that perhaps I may in this gratify my felf-love. I hardly ever heard any perion pronounce this preparatory phrase, "I may say it this preparatory phrase, "I may say it without flattering my vanity, &c." without its being immediately followed by fome strongly marked stroke, characteristic of that very vanity which they feemed defirous to deprecate.

The generality of men detest this foible in others, however large a portion of it they themselves may posless. For my own part, I pardon it wherever I find it, persuaded that it is advantageous to the individual whom it influences, as well as to all those who come within its sphere of action. Consequently it would, in many cases, be by no means abfurd, that a man should confider his vanity among the comforts of his life, and give thanks to Providence that

he is endowed with it.

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And in this place let me acknowledge in all humility, that to Divine Providence I attribute the happiness I have hitherto enjoyed. It alone has prefented to my mind all the means that I have made use of, and has influenced their fuccel's. My belief in this respect induces me to hope, although I ought by no means to depend upon it, that the divine goodnefs will be continued towards me, either in prolonging my good fortune to the termination of my life, or in granting me strength to support any unfortunate reverse which may happen to me, as it has to fo many others. My future fate is known to Him alone, who holds our deftiny in his hands, and who can convert our very afflictions into the fources of our greatest happiness.

One of my uncles, defirous like myfelf of collecting anecdotes relative to our family, gave me fome notes, from which I have extracted feveral circumstances concerning our ancestors. From these I learn that they lived in the village of Eaton, in Northamptonthire, on a freehold of about thirty acres, during at least three hundred years. My uncle could not discover how long they had refided there prior to that period. It is probable they had continued ever fince the time when, in imitation of their fellow citizens all over the kingdom, who then began to affume particular names, they took that of Franklin, which previously denominated a peculiar class of people.

This inconfiderable property would not have fufficed for their subsistence, had it not been for the occupation of a blackfmith, which continued in the family down to my time, the eldest fon being always brought up to that trade; a custom which

both my uncle and my father followed with respect to their eldest fons.

Among the enquiries I made at Eaton, I found no account of their births, marriages, or deaths, prior to the year 1555, as the parish-register extends no farther back than that period. I learned from it, however, that I was the youngest fon of the youngest son for five generations. Miv grandfather, Thomas, who was born in the year 1998, lived at Eaton till he was too old to continue his bufinefs, and then retired to Banbury, in Oxfordshire, to the house of his son John, a dyer, to whom my father was apprentice. There my grandfather died and was buried; we faw his tomb-stone in 1758. His eldest son, Tho-mas, lived in the family house at Eaton, and left it, together with the landed property, to his only daughter, who agreed with her husband, Mr. Fisher, of Wellingborough, to fell the whole to Mr. Efted, the prefent proprietor.

My grandfather had four fons, who lived to be men, namely, Thomas, John, Benjamin, and Josias. I shall mention to you fuch circumstances relative to them, as my memory furnishes me with, not having my papers at hand, in which you will find more particulars, provided they have not

been loft during my absence.

Thomas had learned the bufiness of a blackfmith with my grandfather; but having fome natural genius, he improved himfelf by ftudy, in confequence of the advice - Palmer, Efq. who was at that time the principal man in the parish, and who encouraged all my uncles in the acquifition of knowledge. Thomas thus enabled himfelf to transact the business of a fleward. He foon became a man of fome little confequence, and was one of the principal proectors of all the public enterprises, for the benefit of the county and town of Northamp. ton, as well as for the good of his own village. After having been a good deal noticed and protected by Lord Hallifax, he died on the 6th of January, 1692, exactly four years before I was born. Could I remember the particulars of his life and character, as related to me by fome old people in the village, you would be furprifed at the analogy of many parts of them with mine: "Had "he died," you would fay, " four years 1 later, one would have supposed that a " transmigration had actually taken place." John, I believe, was brought up a dyer of woollens.

Benjamin ferved an apprenticeship in London to a filk dyer; he was an induttrious man. I remember him well, for while I was yet a child he came to join my father in Boston, and lived some time in our house. A particular friendthip subfifted between them, and I was his namefake; he lived to a very advanced age. He

left

poetry, of his own composition, consisting of little fugitive pieces addressed to his friends; he had formed to himfelf a fystem of fhort hand, which he taught me, but hever practifed it, it has long fince flipped from my memory. He was a pious man, and attended the fermons of our best preachers, which he delighted in taking down in the expeditious mode adopted, if not invented by him, and of these he had collected several volumes. He was also fond of politics, too much fo perhaps for his fituation. I lately met in London with a collection he had made of all the principal political pamphlets, from the year 1641 to 1717. Some part of the feries is manifeltly wanting, but there still remained eight volumes in folio, and twenty-four in quarto and octavo. This collection had fallen into the hands of a dealer in old books, who knew me, by having been a customer, and brought it to me. My uncle apparently had left it with him, when he went to America, fifty years ago. I found many notes written on the margin with his own hand. His grandfon, Samuel Franklin, still lives at Boston.

Our humble family at an humble period embraced the principles of the reformed religion. Our forefathers remained faithfully attached to it during the reign of Mary, and were in danger of being harraffed on account of their zeal against popery. They were in possession of an English version of the Bible: in order to conceal and preferve it in fafety, they bethought themselves of tallening it with ftrings, in an open position, to the inside of the cover of a night-stool. When my great grandfather was definous of reading it to the family, he reversed the cover upon his knees, and turned over the leaves, without unloofing the cords which fastened it. One of the children always remained at the door to give notice if he faw the apparitor approaching; this was an officer of the fpiritual-court. On the least alarm, the cover of the night-stool was instantly reflored to its proper place, and the Bible remained concealed underneath it as ufual. This anecdote I had from my uncle Ben-

jamin.

The whole family continued attached to the church of England, till towards the conclusion of the reign of Charles the Second; an æra when fome of the minifters who had been displaced as non-conformifts, having established conventicles in Northamptonthire, Benjamin and Jefias joined them, never again to feparate. The reft of the family continued in the epifcopal

Johas, my father, married early. carried his wife and three children to New-England, about the year 1682. The con-

left two manuscript volumes in quarto, of scription of the law, and their meetings: frequently diffurbed, fome confiderable people of his acquaintance refolved to go to America, in hopes of enjoying the quiet exercife of their religion; and he determined to accompany them.

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My father had four more children by the fame wife in America, and ten by a fecond marriage; in all feventeen. I remember to have feen thirteen of them at table together, all of whom grew up and married. I was the youngest fon, and the youngest of all the children, excepting two daughters.

I was born at Boston, in New-England. My mother, my father's fecond wife, was Abias Folger, the daughter of Peter Folger, one of the first fettlers in New-England, whom Cotton Mather mentions in his ec. clefiaftical history of that province, as a " pious and learned Englishman, if I remember his expression properly. heard that he composed feveral little pieces, though one only was printed. I faw it many years ago; it was written in 1675, in familiar verse, according to the taste of the times and the country. It is addressed to the then governors, and requests liberty of confcience for the Anabaptifts, the Quakers, and other fectaries, who had recently been perfecuted. He attributes the war with the natives, and other calamities which at that time afflicted the country, to this perfecution, confidering them as fo many judgments of God, for the punishment of this odious crime. He also exhorts the government to abrogate laws for inimical to charity. This appeared to me to be written with a certain degree of mafculine liberty, and agreeable simplicity.

Of his eagerness to acquire literary reputation he fays-

My brother refolved, in 1720 or 1721, to fet up a newfpaper; it was the fecond that had been printed in America, and was en-titled, "The New-England Courant;" the only one that ever appeared before, was the " Eofton News-Letter." I recollect very weil, that some of his friends withed to diffuade him from this enterprize, reprefenting it as a scheme that in all human probability would prove unfuccefsful, because, according to them, a single newspaper was fufficient for all America. Notwithstanding this, there are now (in 1771) no lefs than twenty-five.

He, however, carried his project into execution, and I was employed in diffributing the papers among his customers, after having affifted in printing and working them off.

There were a few ingenious men of my Erother's acquaintance, who amused them-selves by writing little essays for his paper, and this circumstance not only added to the venticles being at that time under the pro- credit, but augmented the fale of it. Those

gentlemen

to their conversation with great eagerness, and heard them exult at the good reception which their writings received from the public. I was tempted to afpire to the same kind of reputation; but as I was still a boy, I naturally enough concluded that my brother would not infert any thing of which he knew me to be the author. refolved therefore to difguife my handwriting, and having drawn up an anonymous speculation, I put it that very night under the printing-house door. It was found next morning, and immediately communicated to the little literary club; they read it in my own hearing, and I enjoyed the exquisite satisfaction of knowing that it had obtained their approbation, and, that among their various conjectures concerning the author, they did not indicate a fingle perfon who did not enjoy a great reputation for genius and abilities in the province. At prefent I am inclined to fupofe that I was extremely lucky in my judges, and that they were not fo excellent as I believed them to be. Encouraged, however, by their applaufe, I wrote and fent to the prefs in the fame manner, feveral other papers of my composition, all of which were also approved of, and I preferved my fecret until my little flock of ideas was completely exhaufted.

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My brother from that moment began to have a little more respect for me; but he still looked upon himself as my master, continued to treat me as an apprentice, and infifted on receiving the fame fervices from me as if I had been an utter ftranger. I, on the other hand, imagined that he required too much from me in many cases, and thought myfelf intitled to more indul-Our difgence on the part of a brother. putes were often referred to my father, and I am inclined to think that the other was either for the most part in the wrong, or that I was the better advocate of the two; for judgment was commonly declared in my favour: but my brother, who was choleric, still continued to strike me, a circumstance which I took in great dudgeon.

I have been often fince induced to think, that this harth and tyrannical treatment, contributed not a little to imprint in my mind, that averfion for arbitrary power which I have retained during the remainder of my life.

His first arrival at Philadelphia, where he afterwards made so confpicuous a figure, has some circumstances in it which afford ample matter for reslection.

When I arrived at Philadelphia, I was in my working drefs, my best cloaths being in my trunk, which was to come round

gentlemen often called upon us; I liftened to their conversation with great eagerness, and heard them exult at the good reception in the boat; my pockets too were crammed which their writings received from the with thirts and flockings, and I am sure that I must have made a very strange, figure.

To add to my mortification, I did not know a fingle perion in the town, and was even ignorant where I could find a lodging. I was extremely fatigued on account of having rowed during the whole night; I was also very hungry, and all the money I had in the world, confitted of a fingle dollar, and about a thilling in half-pence, which I gave to the boatmen. They refuled it at first, because I had helped them; but I infifted on their accepting it. A man is fometimes more generous when he has but little money, than when he has a great deal: the reason of this perhaps is, that on fuch an occasion he is defirous of concealing his poverty.

I proceeded towards the end of the street, examining both sides of it at the fame time, with the utmost attention, until I arrived at Market-street, where I met a boy carrying fome bread in his hand. had often made an entire meal of dry bread. I asked him where he had purchafed it, and went straight to the baker's, which he pointed out with his finger. instantly called for two or three biscuits, thinking to find fome of the fame species we had at Botton; but I was informed that none of that kind was to be found at Philadelphia. I then asked for a three-penny loaf, but I was told that they had not any at that price. Being entirely ignorant of the different prices and kinds of bread made in this part of the country, I defired them to give me three-pence worth of bread, of whatever fort they pleafed. On this I got three large loaves; I was furprifed at receiving fo many, but took them nevertheless, and having no empty room in my pockets, I continued my walk, with a loaf under each arm; as to the other, I held it in my hand while I ate it. In this manner I paffed along Market-street, arrived at Fourth-street, and paraded before the house of Mr. Read, the father of the young woman who was afterwards my wife. She happened at that very moment to be at the door, and had good reason to think that I made a very fantaftical appearance.

After this I turned the corner into Chefnut-ffreet, cating my bread all the way, and having thus made a circuit, I found myfelf once more upon the quay in Market-ffreet, within a few yards of the boat in which I had arrived. I defeended a few fleps, in order to drink fome of the water of the river, and finding myfelf-entirely fatisfied with my first loaf, I best wed the other two on a woman, who, with her son, had been my companions on our excursion by water.

Being now refrethed, I again wandered along the ftreet. It was then filled with a number of perfons, all of whom were very neatly dreffed, and walked after one another, in a decent and orderly manner, always keeping the same side of the way. immediately joined and accompanied them to the Quaker's meeting-house, near the market. I fat down as the others did, and after having spent some time in looking around me, without hearing a fingle word uttered, being exceedingly fatigued with my labour, and want of rest during the preceding night, I fell into a profound fleep. I remained in this fituation until the affembly feparated, when one of the affiftants had the complaifance to awaken This confequently was the first house which I entered, or in which I slept, after my arrival in Philadelphia.

I now once more regained the street, and continued to walk along the fide of the river; during my progrets I attentively examined the faces of all the paffengers whom I met, and at length fixed upon a young Quaker, whose physiognomy pleased me: I accordingly accosted and belought him to imform me where a stranger might be able to find a lodging? We were then exactly opposite the fign of the Three Sailors .-"They receive strangers there, pointing out the place at the same time with his singer, "but the house is not of good repute; if thou wilt accompany me, "good repute; if thou wilt accompany me, "He accordingly conducted me to the Crooked Billet in Water-street.

There I ordered a dinner, and while I was eating it, the people of the house put feveral questions to me. My youth and appearance led them to suppose that I was a fugitive. After dinner my inclination to fleep returned again; a bed was accordingly prepared for me; I cast myself upon it, without undreffing, and flept till fix o'clock at night, when they awakened and called me to supper. After that I returned to bed at a very early hour, and flept without interruption, until the next morning.

After refiding at Philadelphia fome time, he embarked for England, and worked a confiderable time in London. From whence he embarked again for Philadelphia, and fetiled there as a master printer. He tells us, that-

Scarce had we got our types in order, and fet up our preis, when George Houle, an a quaintance of mine, brought us a countryman, whom he had picked up in the streets, wandering about in learch of a printer. Our money was at this time nearly exhaufted, on account of the variety of little fams we had been under the ne-

cessity of expending, and the countryman's five shillings, which were the first profits of our partnership, came so a-propos, that I enjoyed more pleafure from the receipt of it, than from any fum I have ever gained The gratitude which I felt in my fince. heart, for the friendly conduct of George House upon this occasion, rendered me in-finitely more ready than I should otherwise have been, to favour and encourage young men, in their first outset in life.

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In every country there are a number of morofe and cynical people, who are continually prognofticating the ruin of their neighbours. There was a perfon of this description, residing at that very time at Philadelphia. He was a man of a certain age, he possessed a considerable fortune; had an appearance of wifdom, and a very grave manner of speaking; his name was Samuel

Mickle.

This man, whom I was entirely unacquainted with, stopped one day at my door, and asked me if I was the young man who had lately fet up a new printing house; on my answering in the affirmative, he said that he was very forry for me, because it was an hazardous enterprize, the expence of which was entirely thrown away, as Philadelphia was then actually in a state of decay, all the inhabitants having either thut up thop, or being on the point of doing fo; he added, that he was certain, from his own knowledge, that every thing that might induce foolish people to think otherwife, fuch as new buildings, and the increased price paid for lodgings, were deceitful figns, which, in truth, only contri-buted to haften our ruin; and he gave me fuch a detailed account, both of the existing misfortunes, and of fuch as were on the eve of taking place, that he left me almost entirely discouraged.

If I had actually known this man before my entrance into bufinefs, I should, beyond all doubt, never have attempted it.

He himfelf continued to live in this ruined place, and to declaim in the fame manner, refusing for many years to purchase a house, because every thing was falling into decay; at length, however, I had the fatisfaction to fee him pay five times as much for one as if he had bought it when he first commenced his lamen-

I ought to have observed, that in the course of the preceding autumn, I had collected a number of the best informed men of my acquaintance, in order to form a club, which we called the junto, the intention of which institution was to improve our minds.

We met constantly every Friday evening. The laws, which I myfelf drew up, obliged every member in his turn, to propose ous or more questions on some point of morality, politics, or natural philosophy, in

order to be discussed by the company prefent; and also to read once every threemonths, an essay of his own composition, on any subject that struck his fancy.

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Our debates were to be fubmitted to the regulation of a prefident, and were never to be excited but by the fincere define of difference of diffusion or the vanity arifing from victory, was to pafs for nothing in our difcuffions. In fhort, in order to prevent bickerings and quarrels, all those expressions which might evince an obtlinate, or head-strong opinion, and all direct connaity of little pecuniary fines.

On the whole, we find very many infructing and amufing anecdotes in this little work; and we anxiously look forward to the more complete life of this great man, now faid to be preparing under the direction of his grandson.

# ROMAN CONVERSATIONS. Vol. II. 800. 1793.

Of the Roman Conversations, the fecond volume has just been pub-This, like the former, is composed of characters of the great men of Rome, and remarks on the hiftory of the republic, and the early The Gracchi, part of the empire. Q. Cæcilius Metellus, Rutilius Rufus, Mutius Scævola, Sertorius, Cato, Scipio, Brutus, under the commonwealth, and Horace, Virgil, Germanicus, and Thraseas, under the emperors, form conspicuous characters, and the whole concludes with a chapter on Suffering Virtue.

In the conversations, much matter is inferted which by no means applies to the state either of ancient or modern Rome; of this we shall take no account than to observe, that we think the work would have been much better without it.

The character of Cicero is thus drawn.

It feems a confiderable mark not only of goodnels of heart, but also of real strength of understanding, and a very proper method for improving both these qualities, if, in the consideration of any great and exalted character, the student observes indeed its defects, yet dwells not too much on them, Vol. XI.

nor views them in the most unfavourable light; but candidly considers the whole character together, and then applies his artension more peculiarly to the study of those its parts, which are the most noble or beautiful.

The character of Cicero has, for many ages, drawn the attention and, generally fpeaking, the admiration of mankind.

In discoursing on such a character, let us be as silent as possible in relation to its imperfections; and, according to the generous scope and intention of these our Roman Convertations, endeavour to improve our selves as much as we can, by diligently studying its real excellencies.

Let us confider, that though Cicero lived in one of the most corrupt ages that ever was known, yet he was totally free from any stain either of avarice or luxurious debauchery.

As to pride, which was the third great vice of those times, Cicero certainly had nothing of that cruel Roman pride which was the occasion of much mitery to Rome, and to those nations which had any connection with her. Cicero was not proud of any actions which were vicious in themfelves, or hurtful to other persons. He was not proud of riches or power. It must be indeed acknowledged, that he was vain, very vain, of the great abilities of mind which he really possessed, and of the great fervices which he had really performed for his country. This vanity is one of the univerfally acknowledged weaknefles in Tully's character. If he had been more humble and lowly in his own fight, he certainly would have been not only a much happier, but also a much better man: for humility as it is in itself a great virtue, so alfo is it the foundation of many others

But humility was an excellence little known in the heathen world.

Let us then turn our thoughts to those virtues which may, with more probability, be expected in a heathen character.

In private life, (permit me on this head to refer you, my dear pupil to the beginning of the twelfth fection in Dr. Middleton's hittory) Ciccro was a kind and generous matter; he was an excellent father; he was grateful to his benefactors; and fineerely zealous for his friends, whether they were in profperity or in advertity. His works are full of thefe noble fentiments, and his life full of examples of them.

life full of examples of them.

Cicero loved his country, even as Octavius owned; he laboured to support its ancient contitution and liberty. He fornetimes thewed great interpidity in resisting the attempts of its enemies: at other times it must be acknowledged, he feems to have been stlenged and overawed. Perhaps this might be real weaknets of mind. On the other hand, perhaps it may be fald, that Tully might be of opinion that he was

ly might be of opinion that he was

ferving his country, by fuspending sometimes all useless opposition to the irresistible power of the usurpers of the national authority. He might think, that it was more patriotic, as well as more prudent, to foften them by patience and fubmission; and by proper management to conduct them into fuch a train of thoughts and actions, as might produce fomething confiderably beneficial to the public.

But however this may be, certainly the most fair method of passing judgement on the political character of Tully, is to examine how he behaved when he himfelf

was in power.

It is indeed at those times, that the fplendor of his character shines forth in its true luftre; at those times his appearance in the history of his country disclotes itself with as much dignity, as attended the founder of this Roman empire, when (according to the description which you, my dear pupil, have often admired in Virgil) he discovered himself in the fullest majesty before the tribunals and fenate of Carthage.

Scindit fe nubes & in æthera purgat apertum Restitit Æneas, claraque in luce refulsit.

Let us confider his conduct while governor of Cilicia; we shall find in it much patriotism, much philanthrophy. He had in his youth behaved very well, while Quæstor at Syracuse; but this Asiatic government produced a very considerable addition of honour to his character.

Cicero feems to have followed, in great measure, the glorious plan of government, which his mafter, Scævola, had obferved in

Afia Minor.

Cicero principally gave his attention to relieve the gricvances of his province, by lightening that heavy load of debts, with which the avarice of his predecessors had incumbered it; and by remedying all the other evil confequences of their bad government. The Affatics, who had joined with the former governors in oppression and plunder of their country, were by Cicero obliged to refund whatever they had thus Cicero protected the province alfo from all Roman oppreffers ; from fome in particular who were of the highest rank in Rome, and otherwife greatly connected with himfelf. Nor was he lefe diligent in averting evils rifing from other cautes; he

alleviated the scarcity of provisions, which at that time afflicted Cilicia and Cyprus almost like a famine. He prepared with great fpirit to defend the frontiers against the threatened and then most formidable invasion of the Parthians.

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He permitted to the natives of his whole province, the use of their own laws. He was kind and affable at all times to all indeed the spirit of every part of his govern-ment was, like that of every other part of his life, most mild and merciful, though at the fame time very prudent and very active. Nor was he lefs remarkable for his noble difinterestedness. For as he supported the dignity of his office of proconful liberally, not fumptuously, he had no temptation to fraud or rapine. He was able to refuse the immense perquisites, presents, and contributions, &c. with which his predecessors had difgraced their administration. Cicero accepted only the most just and moderate duties of his office; and even from those his lawful appointments he bestowed feveral thousand pounds to the relief of distressed particulars or communities in his government. At his departure he declined the acceptance of feveral then usual public honours: he declined also the great free gift, which was offered to him voluntarily by the province, and which is faid on the whole to have amounted to upwards of two hundred and fifty thousand pounds feeling. You feem furprifed, dear fir: but the generofity of Cicero in his government of Cilicia, was much greater in other articles, according to two extracts which I have made from Dr. Middleton's history: the fum mentioned in the fecond extract is fo excelfive, that I should even apprehend there must be some mistake in the calculation.

All the wealthier cities of this province used to pay to all their proconsuls large contributions for being exempt from furnishing winter quarters to the army; (Cyprus alone paid yearly on this fingle account two hundred talents, or about forty thousand pounds) but Ciccro remitted this whole tax to them, which alone made a

In his province of Cilicia, he faved to the public a full million sterling, which all other governors had applied to their private

### POLITICAL REGISTER.

affairs of France. it is necessary to keep in view the state of parties. On one fide was that party, which their friends have thought proper to call Free Republicans. These confifted of men of the first abilities in Danton, Desmoulins, and Talien;

O judge with propriety of the the Convention; such as Vergniaud, Buzot, Gensonné, Bristot, Barbaroux. Guadet, Bancal, &c. The oppoling party was composed of Robertspiere, Danton. Thuriot, Chabot, Bazire, Billaud Varrennes to which may be added Marat, a man, who had rifen to celebrity in France, by the fame means Mr. W. did fome time ago in England, merely by the infamity of those who opposed him. There was also a third party, who were neutral or undecided, whether because they disapproved of the condust of both parties, or wished to make themselves insertly by controuling them both, when led aftray, is uncertain.

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As the fecond party have gained the confidence of the people, by publifting fome bold truths; and as they certainly had the merit of deteding the plan of the Conventionalifts, who meditated a counterrevolution, the people gave car to all their accufations. The party of Briffot had shewn so much warmth in favour of the king, that their opponents immediately raised a cry that they were bribed to save him.

The Brisotines, as they were likewife called, had also, during the debates on the affair of the king, made complaints that they were in conflant danger of affaffination; but immediately after the execution of the king, one of the members of the National Affembly (Pelletier) and denominated of the mountain, was affaffinated by one of the ci-devant body guards of the king. These circumstances combined, tended to strengthen the credit of the mountain in the eyes of the people, and to weaken that of their opponents. On the report of Pelletier's affaffination, a public funeral was decreed him, at which all the members of the Constitution were to attend.

The enemies of France were now arming on all fides, and her internal foes were equally alert. This obliged the Convention to proceed with great vigour. On the 25th of January, Dubois Crancé prefented the following report on the preparations necessary to support the war during the next campaign.

"He confidered France, with relation to all the powers by which the is furrounded, the fovereigns of

to which may be added Marat, a which had shewn hostile dispositions, man, who had rifen to celebrity in france, by the same means Mr. W. did some time ago in England, merely by the infamity of those who op- the field.

"In the north, the war must be offensive; on that account it demands a great force. Last year, Germany united against France an army of 100,000 men, composed of Austrians, Prussians, Hessians, and emigrants. This army has been greatly diminished; but the contingent that the German circles are to furnish, will increase it this year, and will augment it to 180,000 men.

"England, neuter last year, will not be so next spring. The changes introduced into the system of the war, certainly favours an invasion of England—an invasion which has not hitherto been in contemplation.

"To the fouthward. The fystem of war must be defensive to France; Spain can only put 49,000 men on foot—Sardinia, about the same number. It will not be difficult to oppose to them an equal force."

He next confidered the means of defence, after the plan of the committee of general fafety. "The number of our troops will be 502.800 men; of whom 427,000 are infantry; 55,000 cavalry, and 20,000 artillery.

"Distribution of the army. This great force will be divided into eight armies—three in the north, three in the fouth, and two in the fouth-east. There will also be a reserve at Chalons; and an army of observation placed on the frontiers of France, opposite to England. The numbers of each shall be fixed in the following manner:

"From Dunkirk to the Meuse, 150,000 men; between the Meuse and the Sarre, 50,000 men; from Mayence to Besancon, 35,000 men; at Chalons, a reserve of 26,000 men; upon the borders of the Chainel, 40,000 men; in the army of the Alps, 16,000 men; army of the Pyrennees, 16,000 men; the army of the Var, 40,000 men; the remainder

to be flationed according to the divers veffels and boats laden with events of war."

The French continued to pass votes for uniting various parts of the Netherlands to their republic; in countries. doing this, they have been accused of acting in a very unjustifiable manner, and this acculation feems in many respects well founded. But with respect to Liege, they seem to have acted with propriety, for out of 9700 votes, 9600 voted for the union.

The fituation of affairs between France and England becoming critical, the National Assembly referred it to the confideration of the committee of general defence. On the 1st of February, M. Briffot, after an introductory speech, proposed to the Affembly to pass the following decree :- The National Convention having heard the report of its committee of general defence, on the conduct of the English government towards France.

Confidering the king of England has ordered his ambatlador to withdraw himfelf from France,

and refused to acknowledge the provisional executive council, created by the legislative assembly.

That the cabinet of St. James's, at the fame epoch, discontinued its correspondence with the ambassador of France, at London, on pretext of the suspension of the ci-devant king of the French.

That fince the opening of the National Convention, it has refused to answer to the accustomed correspondence between the two states, as also

to acknowledge the powers of that Convention.

That it has refused to acknowledge the ambaffador of the French republic, although holding credentials from it.

That it has endeavoured to obstruct the different purchases of corn, arms, and other merchandife, made either by French citizens, or by the agen's of the French republic.

corn for France, whilft, contrary to the treaty of 1786, the exportation of corn was permitted to other

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That, in order more effectually to obstruct the commercial operations of the republic in England, it has, by means of an act of parliament, prohibited the circulation of affignats.

That, in violation of the 4th article of the treaty of 1786, it also has caused, in the course of the month of January last, an act to pass, by which, all French citizens, refiding in or coming to England, are subjected to the most inquisitorial vexations, and dangerous formalities.

That, at the same time, and contrary to the tenor of the all article of the treaty of peace of 1783, it has granted protection and pecuniary fuccours to the emigrants, and even to the chiefs of those rebels who have borne arms against France; that it keeps with them a daily correspondence, and evidently directed against the French revolution; and that it also receives the chiefs of the rebels of the French West India colonies.

That in the same hostile spirit, and without provocation, and whilft all maritime powers were at peace with England, the cabinet of St. James's has given orders for a confiderable armament by fea, as well as an augmentation of its land forces.

That, that armament was inflituted at the very moment when the English minister persecuted with inveteracy those who supported, in England, the principles of the French revolution, and employed all possible means, both in and out of parliament, to cover the French republic with ignominy, and to draw upon it the execration both of England and of all Europe.

That the object of that armament, destined against France, has not even been diffembled in the parliament of

England.

That although the provisional executive council has employed That it has laid an embargo upon every necellary measure to preferve

peace

peace and fraternity with the English nation, and has given no other answer to calumnies and violations of treaties, than remonstrances founded on principles of justice, and expressed with the dignity of freemen, the English minister has nevertheless persevered in his system of malevolence and hostility, continued his armaments, and fent a squadron to the Scheldt, to interrupt the operations of France in the Low Countries.

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That on the news of the execution of Louis, he has carried his outrages against the French republic to such a pitch, as to order the ambassador of France to quit, within eight days, the territory of Great-Britain.

That the king of England, at that epocha, took an opportunity of appointing different generals to his land forces, as also to demand of the parliament of England a confiderable addition to both his fea and land forces, and to give orders for the fitting out of gun-boats.

That the intelligence of the king of England with the enemies of France, and particularly with the Emperor and with Prussia, has been confirmed by a treaty concluded on with the former, in the month of

January last. That he, the king of England, has drawn into the fame league, the Stadtholder of the United Provinces, who has in the course of the French revolution, and notwithstanding his professed neutrality, treated with contempt the agents of France, welcomed the emigrants, vexatiously treated the French patriots, interrupted their business, set at liberty, contrary to known cuitom, and to the requisition of the French miniltry, the forgers of affignats; and lately, to concur with the hostile deligns of the court of London, he has commanded an armament by sea, named an admiral, ordered the Dutch vessels to join the English squadron, opened a loan to supply the expences of the war, obstructed the exportations for lions had been paid into the national

ply of the Prussian and Austrian magazines; and lastly, confidering that all these circumstances leave no longer a hope to the French republic of obtaining, by amicable negociation, a redress for these injuries; and that all the acts of the British court, and of Holland, are acts of hostility, and equivalent to a declaration of war.

Same day, the following report on the state of the finances was made by M. Cambon. He faid, that the resources of the republic were of two kinds, ordinary and extraordinary: the ordinary were the regular taxes, the amount of which, from January 1, 1792, to January 1, 1793, first, what are called the 1793, first, what are called the direct contribution, land, mobiliary, and licence tax, amounting to 141,212,497 livres; the fame for the year 1792, the lists of which are not yet finished, amounting to 4,926,661 livres; arrears of the direct taxes of 1790; and the anterior years, amounting to 17,337.972; patriotic gifts, 41,832,745; the arrears due on the taxes 648 millions.

To acquit the extraordinary expences of the year 1792, an alienation, to the value of one milliard of national lands, would be neces-

The expences of the year 1703. it is faid, could not be calculated: to acquit them, a new creation of affignats would be necessary, for new taxes or further loans, were equally impracticable; that the affignats had a certain pledge for their acquittal in twelve years. He then produced an extract of a calculation from the account delivered in by the national treasury, the 26th of January last; it appeared by this, that the assignats already created amounted to 3,100,000,040 livres, that three milliards of this fum had been already fpent, and that there now only remained for the public fervice, about 30,550,000.

That of those affignats 682 mil-France, whilst he favoured the sup- treasury, and immediately burnt;

that confequently there now remained in circulation 2,387,460,040 livres. As to the pledge or fecurity on which these assignats were grounded, he referred the affembly to a statement of the national lands delivered in April 1792, by which it appeared that the value of them amounted to 2,445,638,237 livres. The amount of those fold, on the ift day of November 1791, was Since that time, 1,498,289,924. more had been fold, to the amount of about 350 or 360 millions. Since that epoch, the legislature had decreed the fale of other lands, fuch as convents occupied by nuns, valued at 60 millions; bishops palaces, 15 millions; lands once belonging to the Order of Malta, valued at 400 millions; woods and forests, 200 millions; the interest due from the purchasers of national lands, 50 millions. Total 745 millions, which, added to the 2,445,638,237 already stated, made the whole of the value of the national lands already put up to fale, 3,170,638,337 the fecurity for the already created assignats, which amounted to 3,100,000,040; thus the fecurity is worth precifely 70,638,197 more than the debt with which it is incumbered. He then proposed a new creation of assignats, and for the payment of these he would state what was the new security the republic could offer.

1ft. Woods and forests value 1200

millions.

2d. Lands which belonged to the

civil lift, 200 millions.

3d. Equity of redemption in fuch lands, already fold, 100 millions. Redemption of certain feudal rights supported by deeds, 50 millions. The church lands of those countries which you have enfranchifed, and which agree to coalefce in your fyflem; as the department of Mont Blanc, and the districts of Louvez and Vaucluse, 90 millions,

Laftly. In the confiscation of the lands of the emigrants, in which they would find the following im-

mense resource.

Roland, he faid, had a lift of emigrants to the number of 17,000; Cambon thought they now amounted to 40,000, and that the value of their personal property amounted to at least four milliard 800 millions (about 180 millions sterling) and that after payment of their debts, and the expences of the fale, there would remain to the flate a clear profit of three milliards, and that that fum would be realifed on them.

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The last resource the financier pointed out, was grounded on the loyalty of fuch nations as they should enfranchise: they justly owed the French an indemnity for wars undertaken on their account. That they ought to fell the lands of their privileged orders, and pay the French with assignats upon them -the department of Mont Blanc had already done this, fo had the Belgians, in spite of their clergy and nobility, for they had furnished 64 millions, in order to raise an army of 40,000 men.

Thus the whole and unincumbered pledge he could offer for a new creation of affignats, amounted, on their aggregate refources, to the enormous fum of four millards, fix hundred millions (about 165 millions sterling) on which security he proposed to create more assignats, to the amount of 800 millions. This being done, he stated the nation would have a clear unincumbered capital of three millards, to combat the supporters of despotism. The creation of 800 millions of assignats was accordingly decreed.

Hostilities were immediately commenced against Holland; the forts of Hershenswart and St. Michael, on the border of the Meufe, were taken; Dumourier published a proclamation, inviting the Hollanders to join him, which was answered by the Dutch government. Breda was foon reduced, Gertruydenberg furrendered after a fhort fiege; and the Dutch fort of Williamstadt, and. the fortress of Maestricht, were be-

fieged.

fieged. allies to hallen their preparations. Eighteen hundred guards were embarked for Holland, under the command of the Duke of York; and the Prince of Cobourg, appointed to the command in chief of the allied forces, ordered a corps to advance to its relief.

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The French cantonments on the Roer were immediately forced, the fiege of Maestricht raised, and ge-

It became necessary for the neral Valence found himself obliged to retreat from Aix-la-Chapelle .-This piece of fuccess on the part of the confederates, was followed by others equally fatal to the cause of the French. Their generals found themselves under a necessity to evacuate Liege. Dumourier raifed the fiege of Williamstadt, and marched to join generals Valence and Miranda, who were retreating before a very fuperior force.

#### P E R Y.

#### SONNET TO TIME.

BY MRS. ROBINSON.

(Never before published.)

NSATIATE despot! whose resistless

Shatters the loftiest fabric from its base; And tears from beauty ev'ry magic charm, And robs proud nature of her lovelieft

Still art thou kind; for as thy pow'r prevails,

And age comes onward menacing decay; As warmth expires, and numbing froft af-

And life's faint lamp prefents a quiv'ring

'Tis thine to reconcile the tranquil breaft, To prove that fublunary joys are vain; To turn from pomp, and all it's tinfel train, And feek the filent paths of mental reft: So, from the deadlieft poison, chymic art Extracts a healing balm, to tranquillife the heart.

#### TO LAURA.

" Let your heart be worthy of her, or let the offer of it never be made,"

OW eager I've fought to attain A fight of that nymph whom I love; But often fond withes are vain, And happiness seldom we prove.

To meet thee, how oft do I ftray, By affection which prompts the defire; Ah! can I refrain to obey, When charming the nymph I admire!

While anxious I wander a freet, And fancy each femblance my fair, Till nearer-no Laura I meet, How penfive my bosom with care!

But should I this dear one espy, I grudge not my labour or teil; When charm'd with emotions of joy, I'm happy-if blefs'd with a fmile. EDWY. ADDRESS TO THE EVENING STAR.

UCID lamp of ray ferene, Fav'rite star of beauty's queen, Splendid glory of the night, Spreading through the gloom delight; Common stars thy beams outshine, More than argent Cynthia's thine; Guide me through yon lonely glade, To my fair, my lovely maid, Where the jocund train advance, Tripping in the fprightly dance; Cynthia foon will leave the fky, May thy beams her light supply! I ne'er robb'd of lambs the fold, Nor the traveller of gold: Love's my crime-O lend thy ray, Guide a lover on his way! May the star of Venus prove Friendly to the fwains that love. MARC ANTHONY.

### THE DYING CHILD.

BY MR. HOLLAND.

ESIDE the cradle where his infant Behold the father! Mark his clofing eyes; His female friends, enanguish'd, fly the

As death's pale enfign opens o'er his face! Hope hangs her head-her magic counfels

And refignation hails th' Elyfian shore. The quiv'ring lip-short sigh-and icy hand,

Pronounce the grifly tyrant's dread demand.

The cheeks no longer bloom-the rofes fly, And with their little mafter mount the fky!

The parting breath the father's lips receive,

'Tis all his dying charmer has to give-Bleft, balmy gift! to cheer his wounded foul,

That eyes thee foaring 'bove the starry pole. -MAR- MARRIED.

The Rev. William Sanders, of Barmfton, Yorkshire, to Mils Kentish, South Lambeth. The Rev. Charles Sutton, of St. John's

College, Cambridge, to Mrs. Meadows, of Barnham, Suffolk.

Alexander Brodie, Efq. M. P. to Miss Wemyfs, of Wemyls.

Sir Henry Crofsly, to Miss Eliot, daughter of Samuel Eliot, Esq.

John Le Couteur, Esq. of the island of

Jersey, to Miss Dumaresque.

Benjamin Henshaw, Esq. of Moorhall, Effex, to Mifs Clinton, of Sawbridgeworth.

The Hon. Henry Willoughby, fon of Lord Middleton, to Miss Jane Lawley, se-cond daughter of the late Sir R. Lawley.

Charles Hope, Efq. advocate, to Lady Charlotte Hope, fifter of the present Earl of Hopetown.

Robert Crauford, Efq. eldeft fon of Sir Hugh Crauford, to Mils Mushet, of York.

The Right Hon, the Earl of Pomfret, to Mifs Brown, of Pall Mall.

Sir Gilbert Heathcote, bart. to Miss Manners, of Pall Mall.

Thomas French, Efq. of Mitcham, to Mil's Elizabeth Darell.

The Rev. - Guilford, of Botterford, to Mifs Gurnell, of Norwell, in Northamptonfhire.

The Rev. Thomas Taylor, of Bracon

Afh, in Norfolk, to Mrs. Watts, of Nor. wich.

The Earl of Breadalbane, to Mifs Gavin, of Langton.

John F. H. Rawlins, Efq. of Stoke Courcy, in Somerfetthire, to Mils Lemaitre. Paul Benfield, Efq. M. P. to Miss Swin. burne.

Michael Morris, Efq. furgeon of the royal artillery at Barbadoes.

At Barbadoes, aged 75, Zachariah Stephens, Efq.
Lady Ann Broughton, of Doddington

Hall, Cheshire.

Aged 101, Mrs. Barker, of Mortlake. Archibald Menzies, Efq. furgeon of the 10th regiment of foot in Jamaica. At Chelfea, Mrs. Elizabeth Barrow

Henry Myres, Efq. an alderman of York, The Lady of Sir James Sanderfen, knt. The Right Hon. the Counters of Hope.

At Kilfane, in Ireland, Gervis Parker Burke, Efq.

Mrs. Bacon, of Cony Hatch.

Dr. John Thomas, bishop of Rochester. Mrs. Laverich, of Craven-street, Strand. Lady Jane Matthew, wife of General Matthew.

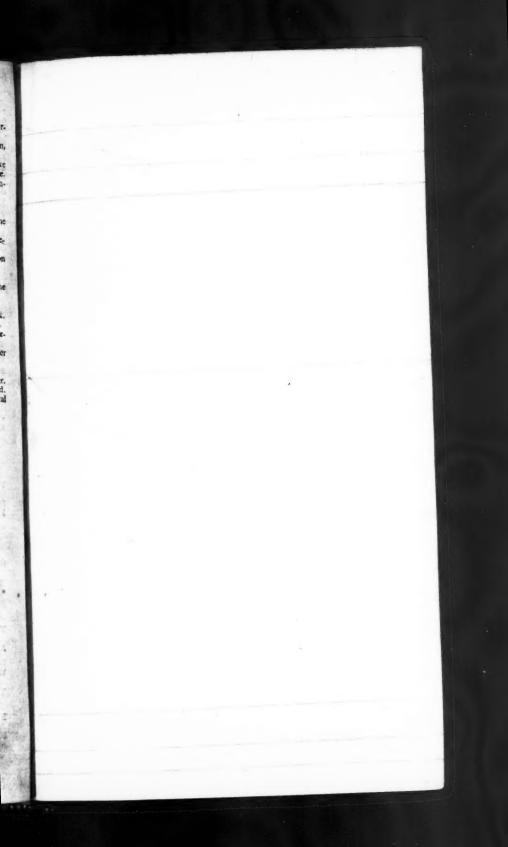
At Hampton Palace, Baronels Schault. Remainder of Deaths in our next.

# PRICES OF STOCKS.

AND DESCRIPTION OF THE PROPERTY.	Aug. 22.	Aug. 20.	Sept. 5.	Sept. 12.
Bank Stock	1763	11	1. C.	-
3 per Cent. Confolidated	761	758	743	743
4 per Cent. Confoudated	93 1	931	92	92#
5 per Cent. Navy	1073	1074	106	106
Long Annuities	22 5-16	221	213	-
Short Annuities	10	10 5-16	104	-
India Stock	2071	208	206	205
India Bonds	-		9 pr.	8 pr.
South Sea Stock		-		
New Navy	84 dif.	9½ dif.	97 dif.	94 dif.
Exchequer Bills				ı pr. e
Lottery Tickets	14 2 0		13 18 0	13 1 6

## PRICES OF CORN AT THE CORN-MARKET.

	August 20.	August 30.	Sept. 9.	Sept. 16.
Wheat	38s. to 49s.	36s. to 49s.	38s. to 51s.	36s. to 50s.
Barley	26s 30s.	275 - 305.	308 358.	28s 37s.
Rye			28s 31s.	
Oats	18s 25s.	18s. — 28s.	20s 29s.	20s 28s.
Pale Malt	40s 44s.	418 448.	415 458.	44s 46s.
Aniber ditto				
Peas				
Beans				
Tares				
Fine Four				
Fecond ditto	308 375.	365 379.	36s 37s.	375 oos. "
Third ditto	245 285.	245 296.	245 295.	285 325.



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